Name of Work-''Resurfacing Of Roads At Maruthi Nagara 3rd Main 6th, 7th, and 8th Cross Roads in Kempegowda Ward No-01

EMB

"FIRST AND FINAL BILL''

Name of Work-"Resurfacing Of Roads At Maruthi Nagara 3rd Main 6th, 7th, and 8th Cross Roads in Kempegowda Ward No-01

PRE-MEASUREMENT SHEETS

"FIRST AND FINAL BILL"

Name of Work-"Resurfacing Of Roads At Maruthi Nagara 3rd Main 6th, 7th, and 8th Cross Roads in Kempegowda Ward No-01

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
1	Removing And Resetting Of Footpath Slab [Approved Rate]						
	For Drain Desilt						
	Maruthinagara						
	6th Cross Rd						
	LHS From 3rd Main Rd						
	CH:0.00m to 9.80m	1	7.80	0.90		7.02	
	CH:9.80m to 14.40m Gap	1	4.60				
	CH:14.40m to 19.40m	1	5.00	0.90		4.50	
	CH:19.40m to 37.50m	1	16.10	0.90		14.49	
	CH:37.50m to 46.80m	1	9.30	0.90		8.37	
	CH:46.80m to 56.80m	1	6.00	0.90		5.40	
	CH:56.80m to 65.30m	1	8.50	0.90		7.65	
	CH:65.30m to 74.00m	1	5.70	0.90		5.13	
	CH:74.00m to 83.40m	1	9.40	0.90		8.46	
	CH:83.40m to 97.60m	1	12.20	0.90		10.98	
	CH:97.60m to 101.40m	1	3.80	0.90		3.42	
	CH:101.40m to 108.40m	1	5.00	0.90		4.50	
	CH:108.40m to 110.30m	1	1.90	0.90		1.71	
	CH:110.30m to 116.30m	1	4.00	0.90		3.60	
	CH:116.30m to 119.40m	1	3.10	0.90		2.79	
	CH:119.40m to 124.50m	1	3.10	0.90		2.79	
	CH:124.50m to 129.00m	1	4.50	0.90		4.05	
	CH:129.00m to 137.90m	1	5.90	0.90		5.31	
	CH:137.90m to 150.40m	1	12.50	0.90		11.25	
	CH:150.40m to 178.00m	1	24.60	0.90		22.14	
	CH:178.00m to 183.80m	1	5.80	0.90		5.22	
	CH:183.80m to 200.00m	1	9.20	0.90		8.28	
	RHS From 3rd Main Rd						
	CH:0.00m to 8.90m	1	5.90	0.75		4.43	
	CH:8.90m to 12.70m	1	3.80	0.75		2.85	
	CH:12.70m to 17.20m Gap	1	4.50				
	CH:17.20m to 44.70m	1	27.50	0.75		20.63	
	CH:44.70m to 54.60m	1	6.90	0.75		5.18	
	CH:54.60m to 64.30m	1	9.70	0.75		7.28	
	CH:64.30m to 71.00m	1	3.70	0.75		2.78	
	CH:71.00m to 73.30m	1	2.30	0.75		1.73	
	CH:73.30m to 98.20m	1	14.90	0.75		11.18	
	CH:98.20m to 101.40m Rd Gap	1	3.20				

Contractor

Asst. Engineer

Asst. Executive Engineer

Asst. Exec. Engineer

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
	CH:101.40m to 131.40m	1	25.00	0.75		18.75	
	CH:131.40m to 144.80m	1	7.40	0.75		5.55	
	CH:144.80m to 147.10m	1	2.30	0.75		1.72	
	CH:147.10m to 165.30m	1	13.20	0.75		9.90	
	CH:165.30m to 172.00m Gap	1	6.70				
	CH:172.00m to 174.00m	1	1.00	0.75		0.75	
	CH:174.00m to 185.70m	1	11.70	0.75		8.77	
	CH:185.70m to 188.20m Gap	1	2.50				
	CH:188.20m to 198.40m	1	7.20	0.75		5.40	
	CH:198.40m to 201.90m Gap	1	3.50				
	7th Cross Rd						
	RHS From End						
	CH:0.00m to 30.00m	1	26.00	0.75		19.50	
	CH:30.00m to 43.80m	1	8.80	0.75		6.60	
	CH:43.80m to 60.30m	1	16.50	0.75		12.38	
	CH:60.30m to 69.50m	1	5.20	0.75		3.90	
	CH:69.50m to 75.00m	1	5.50	0.75		4.13	
	CH:75.00m to 94.00m	1	17.00	0.75		12.75	
	CH:94.00m to 106.30m	1	10.30	0.75		7.73	
	CH:106.30m to 124.80m Gap	1	18.50				
	CH:124.80m to 128.70m	1	3.90	0.75		2.92	
	CH:128.70m to 158.70m	1	28.00	0.75		21.00	
	CH:158.70m to 180.50m	1	19.80	0.75		14.85	
	8th Cross Rd						
	LHS From 3rd Main Rd						
	CH:0.00m to 7.70m	1	4.70	0.75		3.53	
	CH:7.70m to 9.00m	1	1.30	0.75		0.98	
	CH:9.00m to 14.10m	1	3.10	0.75		2.33	
	CH:14.10m to 17.10m Gap	1	3.00				
	CH:17.10m to 19.10m	1	1.00	0.75		0.75	
	CH:19.10m to 27.50m	1	8.40	0.75		6.30	
	CH:27.50m to 31.50m	1	2.00	0.75		1.50	
	CH:31.50m to 47.30m	1	15.80	0.75		11.85	
	CH:47.30m to 50.40m	1	2.10	0.75		1.58	
	CH:50.40m to 56.20m	1	5.80	0.75		4.35	
	CH:56.20m to 64.00m	1	3.80	0.75		2.85	
	CH:64.00m to 66.40m	1	2.40	0.75		1.80	
	CH:66.40m to 74.20m	1	3.80	0.75		2.85	
	CH:74.20m to 83.40m Gap	1	9.20				
	CH:83.40m to 93.20m	1	5.80	0.75		4.35	
	CH:93.20m to 112.00m	1	18.80	0.75		14.10	
	CH:112.00m to 120.90m Gap	1	8.90				
	CH:120.90m to 125.90m	1	3.00	0.75		2.25	
	CH:125.90m to 129.00m	1	3.10	0.75		2.33	

Contractor | Asst. Engineer | Asst. Exec. Engineer

Asst. Exec. Engineer, Yelahanka, (BBMP ... Zn) Bangalore

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
	CH:129.00m to 159.00m	1	23.00	0.75		17.25	
	CH:159.00m to 161.00m	1	1.00	0.75		0.75	
	RHS From 3rd Main Rd						
	CH:0.00m to 8.80m Gap	1	8.80				
	CH:8.80m to 16.90m	1	8.10	0.75		6.08	
	CH:16.90m to 27.40m	1	3.50	0.75		2.63	
	CH:27.40m to 31.40m	1	4.00	0.75		3.00	
	CH:31.40m to 33.00m	1	1.00	0.75		0.75	
	CH:33.00m to 35.00m	1	2.00	0.75		1.50	
	CH:35.00m to 41.70m	1	2.70	0.75		2.03	
	CH:41.70m to 43.50m	1	1.80	0.75		1.35	
	CH:43.50m to 47.30m	1	1.80	0.75		1.35	
	CH:47.30m to 52.30m	1	5.00	0.75		3.75	
	CH:52.30m to 64.00m	1	5.70	0.75		4.28	
	CH:64.00m to 67.20m Gap	1	3.20				
	CH:67.20m to 73.00m	1	2.80	0.75		2.10	
	CH:73.00m to 76.10m	1	3.10	0.75		2.33	
	CH:76.10m to 85.00m	1	4.90	0.75		3.68	
	CH:85.00m to 93.90m Gap	1	8.90				
	CH:93.90m to 107.30m	1	6.40	0.75		4.80	
	CH:107.30m to 119.80m	1	12.50	0.75		9.38	
	CH:119.80m to 122.50m	1	1.70	0.75		1.28	
	CH:122.50m to 127.40m	1	4.90	0.75		3.68	
	CH:127.40m to 157.40m	1	30.00	0.75		22.50	
	CH:157.40m to 161.00m	1	3.60	0.75		2.70	
					Present Qty	**491.61**	**Sqm**
					Limited To	**434.52**	**Sqm**

Contractor

Asst. Engineer

Asst. Exec. Engineer

Asst. Executive Engineer
Yelahanka (BBMP Ynk. Zn)
Yelahanka, Bangalore

Name of Work-"Resurfacing Of Roads At Maruthi Nagara 3rd Main 6th, 7th, and 8th Cross Roads in Kempegowda Ward No-01

Measurement Recorded On: Detailed Measurements

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
2	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work . Loading and Unloading of Stone Boulder/Stone aggregates/Sand/Kankar/Moorum.(Tipper 14 m3) complete as per the direction of Engineer In charge of the work						
	For Drain Desilt						
	Maruthinagara						
	6th Cross Rd						
	LHS From 3rd Main Rd						
	CH:0.00m to 9.80m	1	9.80	0.60	0.55	3.23	
	CH:9.80m to 14.40m Gap	1	4.60				
	CH:14.40m to 19.40m	1	5.00	0.60	0.55	1.65	
	CH:19.40m to 37.50m	1	18.10	0.60	0.55	5.97	
	CH:37.50m to 46.80m	1	9.30	0.60	0.55	3.07	
	CH:46.80m to 56.80m	1	10.00	0.60	0.60	3.60	
	CH:56.80m to 65.30m	1	8.50	0.60	0.60	3.06	
	CH:65.30m to 74.00m	1	8.70	0.60	0.60	3.13	
	CH:74.00m to 83.40m	1	9.40	0.60	0.60	3.38	
	CH:83.40m to 97.60m	1	14.20	0.60	0.60	5.11	
	CH:97.60m to 101.40m	1	3.80	0.60	0.60	1.37	
	CH:101.40m to 108.40m	1	7.00	0.60	0.60	2.52	
	CH:108.40m to 110.30m	1	1.90	0.60	0.60	0.68	
	CH:110.30m to 116.30m	1	6.00	0.60	0.60	2.16	
	CH:116.30m to 119.40m	1	3.10	0.60	0.60	1.12	
	CH:119.40m to 124.50m	1	5.10	0.60	0.60	1.84	
	CH:124.50m to 129.00m	1	4.50	0.60	0.60	1.62	
	CH:129.00m to 137.90m	1	8.90	0.60	0.60	3.20	
	CH:137.90m to 150.40m	1	12.50	0.60	0.55	4.13	
	CH:150.40m to 178.00m	1	27.60	0.60	0.60	9.94	
	CH:178.00m to 183.80m	1	5.80	0.60	0.55	1.91	
	CH:183.80m to 200.00m	1	16.20	0.60	0.55	5.35	
	RHS From 3rd Main Rd						
	CH:0.00m to 8.90m	1	8.90	0.45	0.60	2.40	
	CH:8.90m to 12.70m	1	3.80	0.45	0.55	0.94	
	CH:12.70m to 17.20m Gap	1	4.50				

Contractor

Asst. Engineer

Asst. Exec. Engineer

Asst. E... Engineer Yelahanka (BBMP Ynk Zn) ...anka, Bangalore

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
	CH:17.20m to 44.70m	1	27.50	0.45	0.60	7.43	
	CH:44.70m to 54.60m	1	9.90	0.45	0.60	2.67	
	CH:54.60m to 64.30m	1	9.70	0.45	0.60	2.62	
	CH:64.30m to 71.00m	1	6.70	0.45	0.60	1.81	
	CH:71.00m to 73.30m	1	2.30	0.45	0.60	0.62	
	CH:73.30m to 98.20m	1	24.90	0.45	0.60	6.72	
	CH:98.20m to 101.40m Rd Gap	1	3.20				
	CH:101.40m to 131.40m	1	30.00	0.45	0.60	8.10	
	CH:131.40m to 144.80m	1	13.40	0.45	0.60	3.62	
	CH:144.80m to 147.10m	1	2.30	0.45	0.60	0.62	
	CH:147.10m to 165.30m	1	18.20	0.45	0.60	4.91	
	CH:165.30m to 172.00m Gap	1	6.70				
	CH:172.00m to 174.00m	1	2.00	0.45	0.60	0.54	
	CH:174.00m to 185.70m	1	11.70	0.45	0.60	3.16	
	CH:185.70m to 188.20m Gap	1	2.50				
	CH:188.20m to 198.40m	1	10.20	0.45	0.60	2.75	
	CH:198.40m to 201.90m Gap	1	3.50				
	7th Cross Rd						
	RHS From End						
	CH:0.00m to 30.00m	1	30.00	0.45	0.60	8.10	
	CH:30.00m to 43.80m	1	13.80	0.45	0.60	3.73	
	CH:43.80m to 60.30m	1	16.50	0.45	0.60	4.46	
	CH:60.30m to 69.50m	1	9.20	0.45	0.60	2.48	
	CH:69.50m to 75.00m	1	5.50	0.45	0.60	1.49	
	CH:75.00m to 94.00m	1	19.00				
	CH:94.00m to 106.30m	1	12.30	0.45	0.60	3.32	
	CH:106.30m to 124.80m Gap	1	18.50				
	CH:124.80m to 128.70m	1	3.90	0.45	0.60	1.05	
	CH:128.70m to 158.70m	1	30.00	0.45	0.60	8.10	
	CH:158.70m to 180.50m	1	21.80	0.45	0.60	5.89	
	8th Cross Rd						
	LHS From 3rd Main Rd						
	CH:0.00m to 7.70m	1	7.70	0.45	0.60	2.08	
	CH:7.70m to 9.00m	1	1.30	0.45	0.60	0.35	
	CH:9.00m to 14.10m	1	5.10	0.45	0.60	1.38	
	CH:14.10m to 17.10m Gap	1	3.00				
	CH:17.10m to 19.10m	1	2.00	0.45	0.60	0.54	
	CH:19.10m to 27.50m	1	8.40	0.45	0.60	2.27	
	CH:27.50m to 31.50m	1	4.00	0.45	0.60	1.08	
	CH:31.50m to 47.30m	1	15.80	0.45	0.60	4.27	
	CH:47.30m to 50.40m	1	3.10	0.45	0.60	0.84	
	CH:50.40m to 56.20m	1	5.80	0.45	0.60	1.57	
	CH:56.20m to 64.00m	1	7.80	0.45	0.60	2.11	
	CH:64.00m to 66.40m	1	2.40	0.45	0.60	0.65	

Contractor | Asst. Engineer | Asst. Exec. Engineer

Asst. Executive Engineer, ... Division (BBMP Yhk. Zn) Yelahanka, Bangalore

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
	CH:66.40m to 74.20m	1	7.80	0.45	0.60	2.11	
	CH:74.20m to 83.40m Gap	1	9.20				
	CH:83.40m to 93.20m	1	9.80	0.45	0.60	2.65	
	CH:93.20m to 112.00m	1	18.80	0.45	0.60	5.08	
	CH:112.00m to 120.90m Gap	1	8.90				
	CH:120.90m to 125.90m	1	5.00	0.45	0.60	1.35	
	CH:125.90m to 129.00m	1	3.10	0.45	0.60	0.84	
	CH:129.00m to 159.00m	1	30.00	0.45	0.60	8.10	
	CH:159.00m to 161.00m	1	2.00	0.45	0.60	0.54	
	RHS From 3rd Main Rd						
	CH:0.00m to 8.80m Gap	1	8.80				
	CH:8.80m to 16.90m	1	8.10	0.45	0.60	2.19	
	CH:16.90m to 27.40m	1	10.50	0.45	0.60	2.84	
	CH:27.40m to 31.40m	1	4.00	0.45	0.60	1.08	
	CH:31.40m to 33.00m	1	1.60	0.45	0.60	0.43	
	CH:33.00m to 35.00m	1	2.00	0.45	0.60	0.54	
	CH:35.00m to 41.70m	1	6.70	0.45	0.60	1.81	
	CH:41.70m to 43.50m	1	1.80	0.45	0.60	0.49	
	CH:43.50m to 47.30m	1	3.80	0.45	0.60	1.03	
	CH:47.30m to 52.30m	1	5.00	0.45	0.60	1.35	
	CH:52.30m to 64.00m	1	11.70	0.45	0.60	3.16	
	CH:64.00m to 67.20m Gap	1	3.20				
	CH:67.20m to 73.00m	1	5.80	0.45	0.60	1.57	
	CH:73.00m to 76.10m	1	3.10	0.45	0.60	0.84	
	CH:76.10m to 85.00m	1	8.90	0.45	0.60	2.40	
	CH:85.00m to 93.90m Gap	1	8.90				
	CH:93.90m to 107.30m	1	13.40	0.45	0.60	3.62	
	CH:107.30m to 119.80m	1	12.50	0.45	0.60	3.38	
	CH:119.80m to 122.50m	1	2.70	0.45	0.60	0.73	
	CH:122.50m to 127.40m	1	4.90	0.45	0.55	1.21	
	CH:127.40m to 157.40m	1	30.00	0.45	0.60	8.10	
	CH:157.40m to 161.00m	1	3.60	0.45	0.60	0.97	
	RCC Drain						
	7th Cross Rd						
	LHS From End						
	CH:0.00m to 5.00m	1	5.00	1.10	1.00	5.50	
	CH:5.00m to 13.60m	1	8.60	1.10	1.00	9.46	
	CH:13.60m to 43.60m	1	30.00	1.10	1.00	33.00	
	CH:43.60m to 73.60m	1	30.00	1.10	1.05	34.65	
	CH:73.60m to 77.00m	1	3.40	1.10	1.00	3.74	
	CH:77.00m to 80.60m	1	3.60	1.10	1.00	3.96	
	CH:80.60m to 109.00m	1	28.40	1.10	1.00	31.24	
	CH:109.00m to 112.60m	1	3.60	1.10	1.00	3.96	
	CH:112.60m to 134.50m	1	21.90	1.10	1.00	24.09	

Contractor Asst. Engineer Asst. Exec. Engineer

Asst. Executive Engineer
Velahanka Sub. Division
(BBMP Ynk. Zn)
Yelahanka Bangalore

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
	CH:134.50m to 137.80m	1	3.30	1.10	1.00	3.63	
	CH:137.80m to 167.80m	1	30.00	1.10	1.00	33.00	
	CH:167.80m to 172.30m	1	4.50	1.10	1.00	4.95	
	CH:172.30m to 178.70m	1	6.40	1.10	1.00	7.04	
	CH:178.70m to 179.80m	1	1.10	1.10	1.00	1.21	
	7th Cross Rd						
	RHS From End						
		1	19.00	1.00	1.00	19.00	
					Present Qty	**449.49**	**Cum**

Contractor

Asst. Engineer

Asst. Exec. Engineer

Asst. Executive Engineer
Yelahanka
(BBMP Ynk. Zn)
Yelahanka, Bangalore

Name of Work-"Resurfacing Of Roads At Maruthi Nagara 3rd Main 6th, 7th, and 8th Cross Roads in Kempegowda Ward No-01

Measurement Recorded On:

Detailed Measurements

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
3	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates complete as per the direction of Engineer In charge of the work						
	RCC Drain						
	7th Cross Rd						
	LHS From End						
	CH:0.00m to 5.00m	1	5.00	0.90	0.15	0.68	
	CH:5.00m to 13.60m	1	8.60	0.90	0.15	1.16	
	CH:13.60m to 43.60m	1	30.00	1.10	0.15	4.95	
	CH:43.60m to 73.60m	1	30.00	1.10	0.15	4.95	
	CH:73.60m to 77.00m	1	3.40	1.10	0.15	0.56	
	CH:77.00m to 80.60m	1	3.60	1.10	0.15	0.59	
	CH:80.60m to 109.00m	1	28.40	1.10	0.15	4.69	
	CH:109.00m to 112.60m	1	3.60	1.00	0.15	0.54	
	CH:112.60m to 134.50m	1	21.90	1.10	0.15	3.61	
	CH:134.50m to 137.80m	1	3.30	1.10	0.15	0.54	
	CH:137.80m to 167.80m	1	30.00	1.10	0.15	4.95	
	CH:167.80m to 172.30m	1	4.50	1.10	0.15	0.74	
	CH:172.30m to 178.70m	1	6.40	1.10	0.15	1.06	
	CH:178.70m to 179.80m	1	1.10	1.10	0.15	0.18	
	7th Cross Rd						
	RHS From End						
		1	19.00	0.90	0.15	2.57	
					Present Qty	**31.77**	**Cum**

Contractor

Asst. Engineer

Asst. Exec. Engineer

Asst. Executive Engineer
Yelahanka (BBMP Ynk Zn)
Yelahanka, Bangalore

9

Name of Work-"Resurfacing Of Roads At Maruthi Nagara 3rd Main 6th, 7th, and 8th Cross Roads in Kempegowda Ward No-01								
Measurement Recorded On:	Detailed Measurements							
Item No	Discription of Item		No	Length	Breadth	Depth	Qty	Unit
4	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications.complete as per the direction of Engineer In charge of the work							
	7th Cross Rd							
	LHS From End							
	Total Drain Length=13.60m							
	Main Bar 10mm dia @120mm c/c							
	d=0.89kg/m							
	Distrubution Bar 10mm dia @150mm c/c							
	d=0.61kg/m							
	No of U Bars=113		113	2.00		0.61	137.86	
	No of distrubution Bars=13		13	13.60		0.61	107.85	
	7th Cross Rd							
	LHS From End							
	Total Drain Length=166.20m							
	Main Bar 10mm dia @125mm c/c							
	d=0.89kg/m							
	Distrubution Bar 10mm dia @150mm c/c							
	d=0.61kg/m							
	No of U Bars=1330		1330	2.10		0.61	1703.73	
	No of distrubution Bars=14		14	166.20		0.61	1419.35	
	7th Cross Rd							
	RHS From End							
	Total Drain Length=13.60m							
	Main Bar 10mm dia @120mm c/c							
	d=0.89kg/m							
	Distrubution Bar 10mm dia @150mm c/c							
	d=0.61kg/m							
	No of U Bars=158		158	2.05		0.61	197.58	
	No of distrubution Bars=13		13	19.00		0.61	150.67	
							3717.04	
						Present Qty	**3.72**	**Tn**

Contractor   Asst. Engineer   Asst. Exec. Engineer

Asst. Executive Engineer
Yelahanka (BBMP Yel. Zn)
Yelahanka, Bangalore

Name of Work-"Resurfacing Of Roads At Maruthi Nagara 3rd Main 6th, 7th, and 8th Cross Roads in Kempegowda Ward No-01

Measurement Recorded On:	Detailed Measurements						
Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
5	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates complete as per the direction of Engineer In charge of the work						
	RCC Drain Raft						
	7th Cross Rd						
	LHS From End						
	CH:0.00m to 5.00m	1	5.00	0.80	0.15	0.60	
	CH:5.00m to 13.60m	1	8.60	0.80	0.15	1.03	
	CH:13.60m to 43.60m	1	30.00	0.90	0.15	4.05	
	CH:43.60m to 73.60m	1	30.00	0.90	0.15	4.05	
	CH:73.60m to 77.00m	1	3.40	0.90	0.15	0.46	
	CH:77.00m to 80.60m	1	3.60	0.90	0.15	0.49	
	CH:80.60m to 109.00m	1	28.40	0.90	0.15	3.83	
	CH:109.00m to 112.60m	1	3.60	0.90	0.15	0.49	
	CH:112.60m to 134.50m	1	21.90	0.90	0.15	2.96	
	CH:134.50m to 137.80m	1	3.30	0.90	0.15	0.45	
	CH:137.80m to 167.80m	1	30.00	0.90	0.15	4.05	
	CH:167.80m to 172.30m	1	4.50	0.90	0.15	0.61	
	CH:172.30m to 178.70m	1	6.40	0.90	0.15	0.86	
	CH:178.70m to 179.80m	1	1.10	0.90	0.15	0.15	
	7th Cross Rd						
	RHS From End						
		1	19.00	0.80	0.15	2.28	
	RCC Drain Wall						
	7th Cross Rd						
	LHS From End						
	CH:0.00m to 5.00m	2	5.00	0.15	0.50	0.75	
	CH:5.00m to 13.60m	2	8.60	0.15	0.60	1.55	
	CH:13.60m to 43.60m	2	30.00	0.15	0.60	5.40	
	CH:43.60m to 73.60m	2	30.00	0.15	0.60	5.40	
	CH:73.60m to 77.00m	2	3.40	0.15	0.60	0.61	

Contractor Asst. Engineer Asst. Exec. Engineer

Asst. Executive Engineer
Yelahanka Sub Div.
(BBMP Ynk. Zn)
Bangalore

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
	CH:77.00m to 80.60m	2	3.60	0.15	0.60	0.65	
	CH:80.60m to 109.00m	2	28.40	0.15	0.60	5.11	
	CH:109.00m to 112.60m	2	3.60	0.15	0.60	0.65	
	CH:112.60m to 134.50m	2	21.90	0.15	0.60	3.94	
	CH:134.50m to 137.80m	2	3.30	0.15	0.60	0.59	
	CH:137.80m to 167.80m	2	30.00	0.15	0.60	5.40	
	CH:167.80m to 172.30m	2	4.50	0.15	0.60	0.81	
	CH:172.30m to 178.70m	2	6.40	0.15	0.60	1.15	
	CH:178.70m to 179.80m	2	1.10	0.15	0.60	0.20	
	7th Cross Rd						
	RHS From End						
		2	19.00	0.15	0.60	3.42	
	Drain Coping					**61.98**	
	Maruthinagara						
	6th Cross Rd						
	LHS From 3rd Main Rd						
	CH:0.00m to 9.80m	2	9.80	0.15	0.10	0.29	
	CH:9.80m to 14.40m Gap	2	4.60				
	CH:14.40m to 19.40m	2	5.00	0.15	0.10	0.15	
	CH:19.40m to 37.50m	2	18.10	0.15	0.10	0.54	
	CH:37.50m to 46.80m	2	9.30	0.15	0.10	0.28	
	CH:46.80m to 56.80m	2	10.00	0.15	0.10	0.30	
	CH:56.80m to 65.30m	2	8.50	0.15	0.10	0.26	
	CH:65.30m to 74.00m	2	8.70	0.15	0.10	0.26	
	CH:74.00m to 83.40m	2	9.40	0.15	0.10	0.28	
	CH:83.40m to 97.60m	2	14.20	0.15	0.10	0.43	
	CH:97.60m to 101.40m	2	3.80	0.15	0.15	0.17	
	CH:101.40m to 108.40m	2	7.00	0.15	0.15	0.32	
	CH:108.40m to 110.30m	2	1.90	0.15	0.15	0.09	
	CH:110.30m to 116.30m	2	6.00	0.15	0.15	0.27	
	CH:116.30m to 119.40m	2	3.10	0.15	0.15	0.14	
	CH:119.40m to 124.50m	2	5.10	0.15	0.10	0.15	
	CH:124.50m to 129.00m	2	4.50	0.15	0.15	0.20	
	CH:129.00m to 137.90m	2	8.90	0.15	0.15	0.40	
	CH:137.90m to 150.40m	2	12.50	0.15	0.15	0.56	
	CH:150.40m to 178.00m	2	27.60	0.15	0.15	1.24	
	CH:178.00m to 183.80m	2	5.80	0.15	0.15	0.26	
	CH:183.80m to 200.00m	2	16.20	0.15	0.10	0.49	
	RHS From 3rd Main Rd						
	CH:0.00m to 8.90m	2	8.90	0.15	0.10	0.27	
	CH:8.90m to 12.70m	2	3.80	0.15	0.10	0.11	
	CH:12.70m to 17.20m Gap	2	4.50				
	CH:17.20m to 44.70m	2	27.50	0.15	0.10	0.83	

Contractor   Asst. Engineer   Asst. Exe. Engineer

Asst. Executive Engineer, Yelahanka ... Division (BBMP ...) Yelahanka, Bangalore

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Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
	CH:44.70m to 54.60m	2	9.90	0.15	0.10	0.30	
	CH:54.60m to 64.30m	2	9.70	0.15	0.10	0.29	
	CH:64.30m to 71.00m	2	6.70	0.15	0.10	0.20	
	CH:71.00m to 73.30m	2	2.30	0.15	0.10	0.07	
	CH:73.30m to 98.20m	2	24.90	0.15	0.10	0.75	
	CH:98.20m to 101.40m Rd Gap	2	3.20				
	CH:101.40m to 131.40m	2	30.00	0.15	0.15	1.35	
	CH:131.40m to 144.80m	2	13.40	0.15	0.15	0.60	
	CH:144.80m to 147.10m	2	2.30	0.15	0.15	0.10	
	CH:147.10m to 165.30m	2	18.20	0.15	0.15	0.82	
	CH:165.30m to 172.00m Gap	2	6.70				
	CH:172.00m to 174.00m	2	2.00	0.15	0.10	0.06	
	CH:174.00m to 185.70m	2	11.70	0.15	0.10	0.35	
	CH:185.70m to 188.20m Gap	2	2.50				
	CH:188.20m to 198.40m	2	10.20	0.15	0.10	0.31	
	CH:198.40m to 201.90m Gap	2	3.50				
	7th Cross Rd						
	RHS From End						
	CH:0.00m to 30.00m	2	30.00	0.15	0.10	0.90	
	CH:30.00m to 43.80m	2	13.80	0.15	0.10	0.41	
	CH:43.80m to 60.30m	2	16.50	0.15	0.10	0.50	
	CH:60.30m to 69.50m	2	9.20	0.15	0.10	0.28	
	CH:69.50m to 75.00m	2	5.50	0.15	0.10	0.17	
	CH:75.00m to 94.00m	2	19.00				
	CH:94.00m to 106.30m	2	12.30	0.15	0.10	0.37	
	CH:106.30m to 124.80m Gap	2	18.50				
	CH:124.80m to 128.70m	2	3.90	0.15	0.10	0.12	
	CH:128.70m to 158.70m	2	30.00	0.15	0.10	0.90	
	CH:158.70m to 180.50m	2	21.80	0.15	0.10	0.65	
	8th Cross Rd						
	LHS From 3rd Main Rd						
	CH:0.00m to 7.70m	2	7.70	0.15	0.10	0.23	
	CH:7.70m to 9.00m	2	1.30	0.15	0.10	0.04	
	CH:9.00m to 14.10m	2	5.10	0.15	0.10	0.15	
	CH:14.10m to 17.10m Gap	2	3.00				
	CH:17.10m to 19.10m	2	2.00	0.15	0.10	0.06	
	CH:19.10m to 27.50m	2	8.40	0.15	0.15	0.38	
	CH:27.50m to 31.50m	2	4.00	0.15	0.15	0.18	
	CH:31.50m to 47.30m	2	15.80	0.15	0.15	0.71	
	CH:47.30m to 50.40m	2	3.10	0.15	0.15	0.14	
	CH:50.40m to 56.20m	2	5.80	0.15	0.15	0.26	
	CH:56.20m to 64.00m	2	7.80	0.15	0.15	0.35	
	CH:64.00m to 66.40m	2	2.40	0.15	0.15	0.11	
	CH:66.40m to 74.20m	2	7.80	0.15	0.15	0.35	

Contractor | Asst. Engineer | Asst. Exec Engineer

Asst. Executive Engineer, Yelahanka (BBMP Ynk. Zn), Yelahanka, Bangalore

CIVIL AIM CONSULTANTS

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
	CH:74.20m to 83.40m Gap	2	9.20				
	CH:83.40m to 93.20m	2	9.80	0.15	0.15	0.44	
	CH:93.20m to 112.00m	2	18.80	0.15	0.15	0.85	
	CH:112.00m to 120.90m Gap	2	8.90				
	CH:120.90m to 125.90m	2	5.00	0.15	0.15	0.23	
	CH:125.90m to 129.00m	2	3.10	0.15	0.15	0.14	
	CH:129.00m to 159.00m	2	30.00	0.15	0.15	1.35	
	CH:159.00m to 161.00m	2	2.00	0.15	0.15	0.09	
	RHS From 3rd Main Rd						
	CH:0.00m to 8.80m Gap	2	8.80				
	CH:8.80m to 16.90m	2	8.10	0.15	0.15	0.36	
	CH:16.90m to 27.40m	2	10.50	0.15	0.15	0.47	
	CH:27.40m to 31.40m	2	4.00	0.15	0.15	0.18	
	CH:31.40m to 33.00m	2	1.60	0.15	0.10	0.05	
	CH:33.00m to 35.00m	2	2.00	0.15	0.10	0.06	
	CH:35.00m to 41.70m	2	6.70	0.15	0.10	0.20	
	CH:41.70m to 43.50m	2	1.80	0.15	0.10	0.05	
	CH:43.50m to 47.30m	2	3.80	0.15	0.10	0.11	
	CH:47.30m to 52.30m	2	5.00	0.15	0.12	0.18	
	CH:52.30m to 64.00m	2	11.70	0.15	0.15	0.53	
	CH:64.00m to 67.20m Gap	2	3.20				
	CH:67.20m to 73.00m	2	5.80	0.15	0.15	0.26	
	CH:73.00m to 76.10m	2	3.10	0.15	0.15	0.14	
	CH:76.10m to 85.00m	2	8.90	0.15	0.15	0.40	
	CH:85.00m to 93.90m Gap	2	8.90				
	CH:93.90m to 107.30m	2	13.40	0.15	0.10	0.40	
	CH:107.30m to 119.80m	2	12.50	0.15	0.10	0.38	
	CH:119.80m to 122.50m	2	2.70	0.15	0.10	0.08	
	CH:122.50m to 127.40m	2	4.90	0.15	0.10	0.15	
	CH:127.40m to 157.40m	2	30.00	0.15	0.10	0.90	
	CH:157.40m to 161.00m	2	3.60	0.15	0.10	0.11	
						28.84	
					Present Qty	**90.82**	**Cum**

Contractor Asst. Engineer Asst. Exec. Engineer

Asst. Executive Engineer
Yelahanka Sub-Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore

Name of Work-"Resurfacing Of Roads At Maruthi Nagara 3rd Main 6th, 7th, and 8th Cross Roads in Kempegowda Ward No-01

Measurement Recorded On:

Detailed Measurements

Item No	Discription of Item	No	Length	B1	B2	Avg width	Depth	Qty	Unit
7	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the workcomplete as per the direction of Engineer In charge of the work.								
	Asphalt Road For Cut Portion/Edge Correction								
	Maruthi Nagara								
	6th Cross Rd								
	From 3rd Main Rd								
		1	5.60	2.50	2.50	2.50	0.20	2.80	
		1	10.30	1.80	1.80	1.80	0.20	3.71	
		1	4.50	2.80	2.80	2.80	0.20	2.52	
		1	6.50	1.20	1.20	1.20	0.20	1.56	
		1	3.80	1.80	1.80	1.80	0.20	1.37	
		1	12.30	2.30	2.30	2.30	0.20	5.66	
		1	8.50	2.20	2.20	2.20	0.20	3.74	
		1	6.40	1.20	1.20	1.20	0.20	1.54	
		1	9.50	3.10	3.10	3.10	0.20	5.89	
	7th Cross Rd								
	From End								
		1	12.30	2.40	2.40	2.40	0.20	5.90	
		1	10.60	1.90	1.90	1.90	0.20	4.03	
		1	2.60	1.60	1.60	1.60	0.20	0.83	
		1	4.90	1.40	1.40	1.40	0.20	1.37	
		1	6.80	2.50	2.50	2.50	0.20	3.40	
		1	9.10	1.60	1.60	1.60	0.20	2.91	
		1	12.30	1.20	1.20	1.20	0.20	2.95	
		1	14.20	1.20	1.20	1.20	0.20	3.41	
		1	11.90	1.00	1.00	1.00	0.20	2.38	
	8th Cross Rd								
	From 3rd Main Rd								
		1	9.40	1.60	1.60	1.60	0.20	3.01	
		1	6.50	2.80	2.80	2.80	0.20	3.64	
		1	9.80	2.30	2.30	2.30	0.20	4.51	
		1	10.50	2.00	2.00	2.00	0.20	4.20	
		1	6.50	2.30	2.30	2.30	0.20	2.99	
		1	7.50	1.80	1.80	1.80	0.20	2.70	
		1	6.50	2.30	2.30	2.30	0.20	2.99	
		1	7.50	1.80	1.80	1.80	0.20	2.70	

Contractor | Asst.Engineer | Asst.Exec.Engineer

Asst. Executive Engineer, Yelahanka (BBMP Yel. Zn) Bangalore

Item No	Discription of Item	No	Length	B1	B2	Avg width	Depth	Qty	Unit
	1stD Cross Rd	1	9.50	3.10	3.10	3.10	0.20	5.89	
	From 3rd Main Rd								
		1	6.90	1.50	1.50	1.50	0.20	2.07	
		1	6.20	1.50	1.50	1.50	0.20	1.86	
							Present Qty	**92.52**	**Cum**

Contractor Asst.Engineer Asst.Exec.Engineer

Asst. Executive Engineer
Yelahanka ... (BBMP Yel. Zn)
Yelahanka, Bangalore

Name of Work-"Resurfacing Of Roads At Maruthi Nagara 3rd Main 6th, 7th, and 8th Cross Roads in Kempegowda Ward No-01

Measurement Recorded On: Detailed Measurements

Item No	Discription of Item	No	Length	B1	B2	Avg width	Depth	Qty	Unit
8	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per the direction of Engineer In charge of the work								
	Asphalt Road For Cut Portion/Edge Correction								
	Maruthi Nagara								
	6th Cross Rd								
	From 3rd Main Rd								
		1	5.60	2.50	2.50	2.50	0.225	3.15	
		1	10.30	1.80	1.80	1.80	0.225	4.17	
		1	4.50	2.80	2.80	2.80	0.225	2.84	
		1	6.50	1.20	1.20	1.20	0.225	1.76	
		1	3.80	1.80	1.80	1.80	0.225	1.54	
		1	12.30	2.30	2.30	2.30	0.225	6.37	
		1	8.50	2.20	2.20	2.20	0.225	4.21	
		1	6.40	1.20	1.20	1.20	0.225	1.73	
		1	9.50	3.10	3.10	3.10	0.225	6.63	
	7th Cross Rd								
	From End								
		1	12.30	2.40	2.40	2.40	0.225	6.64	
		1	10.60	1.90	1.90	1.90	0.225	4.53	
		1	2.60	1.60	1.60	1.60	0.225	0.94	
		1	4.90	1.40	1.40	1.40	0.225	1.54	
		1	6.80	2.50	2.50	2.50	0.225	3.83	
		1	9.10	1.60	1.60	1.60	0.225	3.28	
		1	12.30	1.20	1.20	1.20	0.225	3.32	
		1	14.20	1.20	1.20	1.20	0.225	3.83	
		1	11.90	1.00	1.00	1.00	0.225	2.68	
	8th Cross Rd								
	From 3rd Main Rd								
		1	9.40	1.60	1.60	1.60	0.225	3.38	
		1	6.50	2.80	2.80	2.80	0.225	4.10	
		1	9.80	2.30	2.30	2.30	0.225	5.07	
		1	10.50	2.00	2.00	2.00	0.225	4.73	
		1	6.50	2.30	2.30	2.30	0.225	3.36	
		1	7.50	1.80	1.80	1.80	0.225	3.04	
		1	6.50	2.30	2.30	2.30	0.225	3.36	
		1	7.50	1.80	1.80	1.80	0.225	3.04	
		1	9.50	3.10	3.10	3.10	0.225	6.63	

Contractor | Asst.Engineer | Asst.Exec.Engineer

Asst. Executive Engineer
Yelahanka
(BBMP Ynk. Zn)
Yelahanka, Bangalore

Item No	Discription of Item	No	Length	B1	B2	Avg width	Depth	Qty	Unit
	1stD Cross Rd								
	From 3rd Main Rd								
		1	6.90	1.50	1.50	1.50	0.225	2.33	
		1	6.20	1.50	1.50	1.50	0.225	2.09	
							Present Qty	**104.09**	**Cum**

Contractor

Asst.Engineer

Asst.Exec.Engineer

Asst. Executive Engineer
Yelahanka ...
(BBMP Yelahanka Zone)
Velahanka, Bangalore

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Name of Work-"Resurfacing Of Roads At Maruthi Nagara 3rd Main 6th, 7th, and 8th Cross Roads in Kempegowda Ward No-01

Measurement Recorded On: Detailed Measurements

Item No	Discription of Item	No	Length	B1	B2	Avg width	Depth	Qty	Unit
9	Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means. complete as per the direction of Engineer In charge of the work								
	Asphalt Road For Cut Portion/Edge Correction								
	Maruthi Nagara								
	6th Cross Rd								
	From 3rd Main Rd								
		1	5.60	2.50	2.50	2.50		14.00	
		1	10.30	1.80	1.80	1.80		18.54	
		1	4.50	2.80	2.80	2.80		12.60	
		1	6.50	1.20	1.20	1.20		7.80	
		1	3.80	1.80	1.80	1.80		6.84	
		1	12.30	2.30	2.30	2.30		28.29	
		1	8.50	2.20	2.20	2.20		18.70	
		1	6.40	1.20	1.20	1.20		7.68	
		1	9.50	3.10	3.10	3.10		29.45	
	7th Cross Rd								
	From End								
		1	12.30	2.40	2.40	2.40		29.52	
		1	10.60	1.90	1.90	1.90		20.14	
		1	2.60	1.60	1.60	1.60		4.16	
		1	4.90	1.40	1.40	1.40		6.86	
		1	6.80	2.50	2.50	2.50		17.00	
		1	9.10	1.60	1.60	1.60		14.56	
		1	12.30	1.20	1.20	1.20		14.76	
		1	14.20	1.20	1.20	1.20		17.04	
		1	11.90	1.00	1.00	1.00		11.90	
	8th Cross Rd								
	From 3rd Main Rd								
		1	9.40	1.60	1.60	1.60		15.04	
		1	6.50	2.80	2.80	2.80		18.20	
		1	9.80	2.30	2.30	2.30		22.54	
		1	10.50	2.00	2.00	2.00		21.00	
		1	6.50	2.30	2.30	2.30		14.95	
		1	7.50	1.80	1.80	1.80		13.50	
		1	6.50	2.30	2.30	2.30		14.95	
		1	7.50	1.80	1.80	1.80		13.50	
		1	9.50	3.10	3.10	3.10		29.45	
	1stD Cross Rd								
	From 3rd Main Rd								

Contractor | Asst.Engineer | Asst.Exec.Engineer

Asst. Executive Engineer, Yelahanka Sub. Division (BBMP Ynk. Zn)

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Item No	Discription of Item	No	Length	B1	B2	Avg width	Depth	Qty	Unit
		1	6.90	1.50	1.50	1.50		10.35	
		1	6.20	1.50	1.50	1.50		9.30	
							Present Qty	**462.62**	**Sqm**

Contractor

Asst.Engineer

Asst. Executive Engineer

20

Name of Work-"Resurfacing Of Roads At Maruthi Nagara 3rd Main 6th, 7th, and 8th Cross Roads in Kempegowda Ward No-01

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	Breadth			Depth	Qty	Unit
10	Providing and applying tack coat with VG-10 Bitumen using pressure distributor at the rate of 0.20 kg/m2on the prepared bituminous surface cleaned with mechanical broom complete as per the direction of Engineer In charge of the work								
	Asphalt Road								
	Maruthi Nagara								
	6th Cross Rd								
	From 3rd Main Rd								
	Ch:0.00m to 15.00m	1	15.00	4.15	+	3.90		60.38	
					2				
	Ch:15.00m to 30.00m	1	15.00	3.90	+	3.90		58.50	
					2				
	Ch:30.00m to 45.00m	1	15.00	3.90	+	4.10		60.00	
					2				
	Ch:45.00m to 60.00m	1	15.00	4.10	+	3.30		55.50	
					2				
	Ch:60.00m to 75.00m	1	15.00	3.30	+	3.40		50.25	
					2				
	Ch:75.00m to 90.00m	1	15.00	3.40	+	3.50		51.75	
					2				
	Ch:90.00m to 105.00m	1	15.00	3.50	+	4.30		58.50	
					2				
	Ch:105.00m to 120.00m	1	15.00	4.30	+	4.20		63.75	
					2				
	Ch:120.00m to 135.00m	1	15.00	4.20	+	4.30		63.75	
					2				
	Ch:135.00m to 150.00m	1	15.00	4.30	+	4.40		65.25	
					2				
	Ch:150.00m to 165.00m	1	15.00	4.40	+	4.20		64.50	
					2				
	Ch:165.00m to 175.00m	1	10.00	3.20	+	3.20		32.00	
					2				
	Ch:175.00m to 185.00m	1	10.00	3.20	+	3.20		32.00	
					2				
	Ch:185.00m to 195.00m	1	10.00	3.20	+	4.10		36.50	
					2				
	Ch:195.00m to 201.90m	1	6.90	4.10	+	3.80		27.26	
					2				
	Deduction								

Contractor

Asst. Engineer

Asst. Executive Engineer
Yelahanka
(BBMP Ynk. Zn)
Yelahanka, Bangalore

Asst. Exec. Engineer,

Item No	Discription of Item	No	Length	Breadth			Depth	Qty	Unit
	Ramp # 109	-1	8.90	0.75	+	0.75		-6.68	
					2				
	Ramp # 108	-1	4.30	0.40	+	0.40		-1.72	
					2				
	7th Cross Rd								
	From End								
	Ch:0.00m to 15.00m	1	15.00	2.60	+	3.60		46.50	
					2				
	Ch:15.00m to 30.00m	1	15.00	3.60	+	4.30		59.25	
					2				
	Ch:30.00m to 45.00m	1	15.00	4.30	+	3.90		61.50	
					2				
	Ch:45.00m to 60.00m	1	15.00	3.90	+	4.30		61.50	
					2				
	Ch:60.00m to 75.00m	1	15.00	4.30	+	3.80		60.75	
					2				
	Ch:75.00m to 90.00m	1	15.00	3.80	+	4.45		61.88	
					2				
	Ch:90.00m to 105.00m	1	15.00	4.45	+	3.40		58.88	
					2				
	Ch:105.00m to 120.00m	1	15.00	3.40	+	3.50		51.75	
					2				
	Ch:120.00m to 135.00m	1	15.00	3.50	+	4.05		56.63	
					2				
	Ch:135.00m to 150.00m	1	15.00	4.05	+	4.65		65.25	
					2				
	Ch:150.00m to 165.00m	1	15.00	4.65	+	4.60		69.38	
					2				
	Ch:165.00m to 175.00m	1	10.00	3.20	+	4.60		39.00	
					2				
	Ch:175.00m to 180.40m	1	5.40	4.60	+	4.20		23.76	
					2				
	Deduction								
	Ramp # 178	-1	3.40	0.75	+	0.75		-2.55	
					2				
	Ramp # 177	-1	4.80	0.70	+	0.70		-3.36	
					2				
	Upto 3rd Main Rd								
	8th Cross Rd								
	From 3rd Main Rd								
	Ch:0.00m to 15.00m	1	15.00	3.70	+	4.00		57.75	
					2				
	Ch:15.00m to 30.00m	1	15.00	4.00	+	4.20		61.50	
					2				

Contractor

Asst. Engineer

Asst. Exec. Engineer,

Asst. Executive Engineer
Yelahanka Sub Division
(BBMP Ylk. Zn)
Yelahanka, Bangalore

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Ch:30.00m to 45.00m	1	15.00	4.20 + 4.00 2		61.50	
	Ch:45.00m to 60.00m	1	15.00	4.00 + 4.20 2		61.50	
	Ch:60.00m to 75.00m	1	15.00	4.20 + 4.60 2		66.00	
	Ch:75.00m to 90.00m	1	15.00	4.60 + 3.90 2		63.75	
	Ch:90.00m to 105.00m	1	15.00	3.90 + 3.90 2		58.50	
	Ch:105.00m to 120.00m	1	15.00	3.90 + 4.30 2		61.50	
	Ch:120.00m to 135.00m	1	15.00	4.30 + 4.30 2		64.50	
	Ch:135.00m to 150.00m	1	15.00	4.30 + 4.45 2		65.63	
	Ch:150.00m to 161.00m	1	11.00	4.45 + 4.10 2		47.03	
	Deduction						
	Ramp # 155	-1	8.90	0.70 + 0.70 2		-6.23	
	Ramp	-1	4.90	0.60 + 0.60 2		-2.94	
	Ramp # 127/A	-1	6.70	0.60 + 0.60 2		-4.02	
	Ramp # 135	-1	19.00	0.70 + 0.70 2		-13.30	
	Ramp # 129	-1	9.40	0.65 + 0.65 2		-6.11	
	Tree	-2	0.40	0.40 + 0.65 2		-0.42	
	1stD Cross Rd						
	From 3rd Main Rd						
	Ch:0.00m to 15.00m	1	15.00	5.00 + 5.10 2		75.75	
	Ch:15.00m to 30.00m	1	15.00	5.10 + 5.20 2		77.25	
	Ch:30.00m to 45.70m	1	15.70	5.20 + 5.50 2		84.00	
	Deduction						
	Ramp Srinivasa Nilaya	-1	9.50	0.70 + 0.70 2		-6.65	
	Ramp # 61	-1	5.10	0.50 + 0.50 2		-2.55	

Contractor

Asst. Engineer

Asst. Exe. Engineer,

Asst. Executive Engineer
(BBMP Ynk. Zn)
Yelahanka, Bangalore

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Ramp # 63						
		-1	12.00	(0.60 + 0.60) / 2		-7.20	
	Ramp #59						
		-1	3.00	(0.50 + 0.50) / 2		-1.50	
	Tree						
		-1	0.50	(0.50 + 0.50) / 2		-0.25	
	Tree						
		-1	1.60	(1.30 + 1.30) / 2		-2.08	
	Road Cutting						
		1	6.00	(0.60 + 0.60) / 2		3.60	
		2	5.50	(0.75 + 0.75) / 2		8.25	
		2	6.00	(0.60 + 0.60) / 2		7.20	
		1	6.00	(0.70 + 0.70) / 2		4.20	
		2	5.50	(0.75 + 0.75) / 2		8.25	
		1	6.00	(0.60 + 0.60) / 2		3.60	
	Pot Holes						
		1	2.50	(1.30 + 1.20) / 2		3.13	
		2	3.00	(1.40 + 1.30) / 2		8.10	
		3	2.50	(1.20 + 1.10) / 2		8.63	
		2	3.00	(1.20 + 1.20) / 2		7.20	
		2	3.00	(1.50 + 1.50) / 2		9.00	
	Approaches Road Edges						
		1	30.00	(1.50 + 1.50) / 2		45.00	
		1	30.00	(1.50 + 1.60) / 2		46.50	
		1	22.00	(1.60 + 1.60) / 2		35.20	
					Present Qty	**2532.33**	**Sqm**

Contractor   Asst. Engineer   Asst. Exec. Engineer,

Asst. Executive Engineer

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Ramp # 63						
		-1	12.00	(0.60 + 0.60) / 2		-7.20	
	Ramp #59						
		-1	3.00	(0.50 + 0.50) / 2		-1.50	
	Tree						
		-1	0.50	(0.50 + 0.50) / 2		-0.25	
	Tree						
		-1	1.60	(1.30 + 1.30) / 2		-2.08	
	Road Cutting						
		1	6.00	(0.60 + 0.60) / 2		3.60	
		2	5.50	(0.75 + 0.75) / 2		8.25	
		2	6.00	(0.60 + 0.60) / 2		7.20	
		1	6.00	(0.70 + 0.70) / 2		4.20	
		2	5.50	(0.75 + 0.75) / 2		8.25	
		1	6.00	(0.60 + 0.60) / 2		3.60	
	Pot Holes						
		1	2.50	(1.30 + 1.20) / 2		3.13	
		2	3.00	(1.40 + 1.30) / 2		8.10	
		3	2.50	(1.20 + 1.10) / 2		8.63	
		2	3.00	(1.20 + 1.20) / 2		7.20	
		2	3.00	(1.50 + 1.50) / 2		9.00	
	Approaches Road Edges						
		1	30.00	(1.50 + 1.50) / 2		45.00	
		1	30.00	(1.50 + 1.60) / 2		46.50	
		1	22.00	(1.60 + 1.60) / 2		35.20	
					Present Qty	**2532.33**	**Sqm**

Contractor

Asst. Engineer

Asst. Exec. Engineer,

Asst. Executive Engineer
Yelahanka Division
(BBMP Ylk. Zn)
Yelahanka, Bangalore

Name of Work-"Resurfacing Of Roads At Maruthi Nagara 3rd Main 6th, 7th, and 8th Cross Roads in Kempegowda Ward No-01

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Measurement Recorded On: Detailed Measurements

Item No	Discription of Item	No	Length	B1	B2	Avg width	Depth	Qty	Unit
11	Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 505 complete in all respects. complete as per the direction of Engineer In charge of the work								
	Asphalt Road For Cut Portion/Edge Correction								
	Maruthi Nagara								
	6th Cross Rd								
	From 3rd Main Rd								
		1	5.60	2.50	2.50	2.50	0.05	0.70	
		1	10.30	1.80	1.80	1.80	0.05	0.93	
		1	4.50	2.80	2.80	2.80	0.05	0.63	
		1	6.50	1.20	1.20	1.20	0.05	0.39	
		1	3.80	1.80	1.80	1.80	0.05	0.34	
		1	12.30	2.30	2.30	2.30	0.05	1.41	
		1	8.50	2.20	2.20	2.20	0.05	0.94	
		1	6.40	1.20	1.20	1.20	0.05	0.38	
		1	9.50	3.10	3.10	3.10	0.05	1.47	
	7th Cross Rd								
	From End								
		1	12.30	2.40	2.40	2.40	0.05	1.48	
		1	10.60	1.90	1.90	1.90	0.05	1.01	
		1	2.60	1.60	1.60	1.60	0.05	0.21	
		1	4.90	1.40	1.40	1.40	0.05	0.34	
		1	6.80	2.50	2.50	2.50	0.05	0.85	
		1	9.10	1.60	1.60	1.60	0.05	0.73	
		1	12.30	1.20	1.20	1.20	0.05	0.74	
		1	14.20	1.20	1.20	1.20	0.05	0.85	
		1	11.90	1.00	1.00	1.00	0.05	0.60	
	8th Cross Rd								
	From 3rd Main Rd								
		1	9.40	1.60	1.60	1.60	0.05	0.75	
		1	6.50	2.80	2.80	2.80	0.05	0.91	
		1	9.80	2.30	2.30	2.30	0.05	1.13	
		1	10.50	2.00	2.00	2.00	0.05	1.05	
		1	6.50	2.30	2.30	2.30	0.05	0.75	
		1	7.50	1.80	1.80	1.80	0.05	0.68	

Contractor

Asst.Engineer

Asst.Exec.Engineer

Asst. Executive Engineer
Yelahanka Sub Division
(BBMP)
Yelahanka, Bangalore

Item No	Discription of Item	No	Length	B1	B2	Avg width	Depth	Qty	Unit
		1	6.50	2.30	2.30	2.30	0.05	0.75	
		1	7.50	1.80	1.80	1.80	0.05	0.68	
	1stD Cross Rd	1	9.50	3.10	3.10	3.10	0.05	1.47	
	From 3rd Main Rd								
		1	6.90	1.50	1.50	1.50	0.05	0.52	
	Asphalt Road For Profile Correction	1	6.20	1.50	1.50	1.50	0.05	0.47	
	6th Cross Rd								
	From 3rd Main Rd								
		1	6.00	1.90	1.90	1.90	0.05	0.57	
		1	6.00	1.60	1.60	1.60	0.05	0.48	
		1	4.90	1.40	1.40	1.40	0.05	0.34	
		1	7.50	2.50	2.50	2.50	0.05	0.94	
		1	9.10	1.60	1.60	1.60	0.05	0.73	
	7th Cross Rd								
	From End								
		1	6.50	1.20	1.20	1.20	0.05	0.39	
		1	3.80	1.80	1.80	1.80	0.05	0.34	
		1	6.00	2.30	2.30	2.30	0.05	0.69	
		1	6.00	2.20	2.20	2.20	0.05	0.66	
		1	6.40	1.20	1.30	1.25	0.05	0.40	
	8th Cross Rd								
	From 3rd Main Rd								
		1	3.70	1.80	1.80	1.80	0.05	0.33	
		1	6.00	2.30	2.30	2.30	0.05	0.69	
		1	8.00	2.20	2.20	2.20	0.05	0.88	
		1	6.40	1.20	1.20	1.20	0.05	0.38	
							Present Qty	**30.96**	**Cum**

Contractor Asst.Engineer Asst.Exec.Engineer

Asst. Executive Engineer
Velahanka, Bangalore

Name of Work-"Resurfacing Of Roads At Maruthi Nagara 3rd Main 6th, 7th, and 8th Cross Roads in Kempegowda Ward No-01

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Measurement Recorded On:

Detailed Measurements

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
14	Cost of Haulage Excluding Loading and Unloading Taking output 25 t load and lead 10 km = 100 t.km complete as per the direction of Engineer In charge of the work						
	From item no. 02		449.49	1.28		575.35	
	From item no. 07		92.52	1.28		118.43	
					Present Qty	**693.78**	**T.km**

Contractor

Asst.Engineer

Asst.Exed.Engineer

Asst. Engineer
Yelahanka
(BBMP Ynk. Zn)
Bangalore

Name of Work-"Resurfacing Of Roads At Maruthi Nagara 3rd Main 6th, 7th, and 8th Cross Roads in Kempegowda Ward No-01

MEASUREMENT SHEETS

"FIRST AND FINAL BILL"

Name of Work-"Resurfacing Of Roads At Maruthi Nagara 3rd Main 6th, 7th, and 8th Cross Roads in Kempegowda Ward No-01

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
	Detailed Measurements								
1	Removing And Resetting Of Footpath Slab [Approved Rate]								
	Vide Premeasurement page no. 1-3					434.52			
	Present Qty					**434.52**	**Sqm**	**242.03**	**105166.88**
2	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work . Loading and Unloading of Stone Boulder/Stone aggregates/Sand/Kankar/Moorum.(Tipper 14 m3) complete as per the direction of Engineer In charge of the work								
	Vide Premeasurement page no. 4 to 7					449.49			
	Present Qty					**449.49**	**Cum**	**371.59**	**167025.99**
3	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed. laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates complete as per the direction of Engineer In charge of the work								
	Vide Premeasurement page no. 8					31.77			
	Present Qty					**31.77**	**Cum**	**6784.88**	**215555.64**
4	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications.complete as per the direction of Engineer In charge of the work								
	Vide Premeasurement page no. 9					3.72			
	Present Qty					**3.72**	**Tn**	**89510.77**	**332980.06**

Contractor Asst. Engineer Asst. Exec. Engineer

Asst. Executive Engineer Yelahanka Division (BBMP Ynk. Zn) Yelahanka, Bangalore

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
5	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M20 Design Mix Using 20 mm nominal size graded crushed coarse aggregates complete as per the direction of Engineer In charge of the work								
	Vide Premeasurement page no. 10 to 13					90.82			
	Present Qty					**90.82**	**Cum**	**9670.41**	**878266.64**
7	Earth work in surface excavation by mechanical means for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the workcomplete as per the direction of Engineer In charge of the work								
	Vide Premeasurement page no. 14 to 15					92.52			
	Present Qty					**92.52**	**cum**	**107.62**	**9957.00**
8	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per the direction of Engineer In charge of the work								
	Vide Premeasurement page no. 16 to 17					104.09			
	Present Qty					**104.09**	**Cum**	**2899.07**	**301764.20**
9	Providing and applying primer coat with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means. complete as per the direction of Engineer In charge of the work								
	Vide Premeasurement page no. 18 to 19					462.62			
	Present Qty					**462.62**	**Sqm**	**46.45**	**21488.70**
10	Providing and applying tack coat with VG-10 Bitumen using pressure distributor at the rate of 0.20 kg/m2on the prepared bituminous surface cleaned with mechanical broom complete as per the direction of Engineer In charge of the work								

Contractor

Asst. Engineer

Asst. Exec. Engineer

Asst. Executive Engineer
Yelahanka Sub-Division
(BBMP Ynk. Zn)
Bangalore

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
	Vide Premeasurement page no. 20 to 23					2532.33			
	Present Qty					**2532.33**	**Sqm**	**13.59**	**34414.36**
11	Providing and laying Dense Graded Bituminous Macadam with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 505 complete in all respects. complete as per the direction of Engineer								
	Vide Premeasurement page no. 24 to 25					30.96			
	Present Qty					**30.96**	**Cum**	**10704.68**	**331416.89**
14	Cost of Haulage Excluding Loading and Unloading Taking output 25 t load and lead 10 km = 100 t.km complete as per the direction of Engineer In charge of the								
	Vide Premeasurement page no. 26					693.78			
	Present Qty					**693.78**	**T.km**	**90.63**	**62877.28**

Contractor

Asst. Engineer

Asst. Exec. Engineer

Asst. Executive Engineer
Yelahanka Sub Dn
(BBMP Ynk. Zn)
Yelahanka, Bangalore

Name of Work-"Resurfacing Of Roads At Maruthi Nagara 3rd Main 6th, 7th, and 8th Cross Roads in Kempegowda Ward No-01 30

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit	Rate	Amount
6	Providing and fixing precast reinforced cement concrete covering slabs of 10Cm thick made of M20 with OPC cement, with 20mm and down size graded granite metal coarse aggregate @0.70cum and fine aggregate & 0.74 cum with superplasticizer machine,mixed, Inculding providing and removing centering, shuttering, strutting propping etc., for edges of slabs with TMT steel (Fe500) cost of all materials, labour, all lead and lift, HOM of machinery, curing, including cost of reinforcement etc., complete as directed by the Engineer in charge of the work								
	Precast Covering Slab								
	7th Cross Rd								
	LHS From End								
	CH:0.00m to 5.00m	1	5.00	0.75		3.75			
	CH:5.00m to 13.60m	1	8.60	0.75		6.45			
	CH:13.60m to 43.60m	1	30.00	0.90		27.00			
	CH:43.60m to 73.60m	1	30.00	0.90		27.00			
	CH:73.60m to 77.00m	1	3.40	0.90		3.06			
	CH:77.00m to 80.60m	1	3.60	0.90		0.00	BS		
	CH:80.60m to 109.00m	1	28.40	0.90		25.56			
	CH:109.00m to 112.60m	1	3.60	0.90		0.00	BS		
	CH:112.60m to 134.50m	1	21.90	0.90		19.71			
	CH:134.50m to 137.80m	1	3.30	0.90		0.00	BS		
	CH:137.80m to 167.80m	1	30.00	0.90		27.00			
	CH:167.80m to 172.30m	1	4.50	0.90		4.05			
	CH:172.30m to 178.70m	1	6.40	0.90		0.00	BS		
	CH:178.70m to 179.80m	1	1.10	0.90		0.99			
	Missing Slab								
	Maruthinagara								
	6th Cross Rd								
	LHS From 3rd Main Rd								
	CH:0.00m to 9.80m	1	2.00	0.90		1.80			
	CH:9.80m to 14.40m Gap	1	4.60						
	CH:14.40m to 19.40m	1	5.00	0.90		0.00	BS		
	CH:19.40m to 37.50m	1	2.00	0.90		1.80			
	CH:37.50m to 46.80m	1	9.30	0.90		0.00	BS		
	CH:46.80m to 56.80m	1	4.00	0.90		3.60			
	CH:56.80m to 65.30m	1	8.50	0.90		0.00	BS		
	CH:65.30m to 74.00m	1	3.00	0.90		2.70			
	CH:74.00m to 83.40m	1	9.40	0.90		0.00	BS		
	CH:83.40m to 97.60m	1	2.00	0.90		1.80			
	CH:97.60m to 101.40m	1	3.80	0.90		0.00	BS		
	CH:101.40m to 108.40m	1	2.00	0.90		1.80			
	CH:108.40m to 110.30m	1	1.90	0.90		0.00	BS		

Executive Engineer
Bruhat Bengaluru Mahanagara Palike
Yelahanka, Division

Executive Engineer
Bruhat Bengaluru Mahanagara Palike
Yelahanka, Division

Contractor

Asst. Engineer

Asst. Executive Engineer
Yelahanka Sub-Division
Asst. Exec. Engineer
(BBMP Ylk. Zn)
Yelahanka, Bangalore

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit	Rate	Amount
	CH:110.30m to 116.30m	1	2.00	0.90		1.80			
	CH:116.30m to 119.40m	1	3.10	0.90		0.00	BS		
	CH:119.40m to 124.50m	1	2.00	0.90		1.80			
	CH:124.50m to 129.00m	1	4.50	0.90		0.00	BS		
	CH:129.00m to 137.90m	1	3.00	0.90		2.70			
	CH:137.90m to 150.40m	1	12.50	0.90		0.00	BS		
	CH:150.40m to 178.00m	1	3.00	0.90		2.70			
	CH:178.00m to 183.80m	1	5.80	0.90		0.00	BS		
	CH:183.80m to 200.00m	1	7.00	0.90		6.30			
	RHS From 3rd Main Rd								
	CH:0.00m to 8.90m	1	3.00	0.75		2.25			
	CH:8.90m to 12.70m	1	3.80	0.75		0.00	BS		
	CH:12.70m to 17.20m Gap	1	4.50						
	CH:17.20m to 44.70m	1	27.50	0.75		0.00	BS		
	CH:44.70m to 54.60m	1	3.00	0.75		2.25			
	CH:54.60m to 64.30m	1	9.70	0.75		0.00	BS		
	CH:64.30m to 71.00m	1	3.00	0.75		2.25			
	CH:71.00m to 73.30m	1	2.30	0.75		0.00	BS		
	CH:73.30m to 98.20m	1	10.00	0.75		7.50			
	CH:98.20m to 101.40m Rd Gap	1	3.20						
	CH:101.40m to 131.40m	1	5.00	0.75		3.75			
	CH:131.40m to 144.80m	1	6.00	0.75		4.50			
	CH:144.80m to 147.10m	1	2.30	0.75		0.00	BS		
	CH:147.10m to 165.30m	1	5.00	0.75		3.75			
	CH:165.30m to 172.00m Gap	1	6.70						
	CH:172.00m to 174.00m	1	1.00	0.75		0.75			
	CH:174.00m to 185.70m	1	11.70	0.75		0.00	BS		
	CH:185.70m to 188.20m Gap	1	2.50						
	CH:188.20m to 198.40m	1	3.00	0.75		2.25			
	CH:198.40m to 201.90m Gap	1	3.50						
	7th Cross Rd								
	RHS From End								
	CH:0.00m to 30.00m	1	4.00	0.75		3.00			
	CH:30.00m to 43.80m	1	5.00	0.75		3.75			
	CH:43.80m to 60.30m	1	16.50	0.75		0.00	BS		
	CH:60.30m to 69.50m	1	4.00	0.75		3.00			
	CH:69.50m to 75.00m	1	5.50	0.75		0.00	BS		
	CH:75.00m to 94.00m	1	2.00	0.75		1.50			
	CH:94.00m to 106.30m	1	2.00	0.75		1.50			
	CH:106.30m to 124.80m Gap	1	18.50						
	CH:124.80m to 128.70m	1	3.90	0.75		0.00	BS		
	CH:128.70m to 158.70m	1	2.00	0.75		1.50			
	CH:158.70m to 180.50m	1	2.00	0.75		1.50			
	8th Cross Rd								
	LHS From 3rd Main Rd								
	CH:0.00m to 7.70m	1	3.00	0.75		2.25			

Executive Engineer
Bruhat Bengaluru Mahanagara Palike
Yelahanka, Division

Contractor

Asst. Engineer

Asst. Exec. Engineer

Asst. Executive Engineer
Yelahanka Sub. Divisor
(BBMP Ynk. Zn)

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit	Rate	Amount
	CH:7.70m to 9.00m	1	1.30	0.75		0.00	BS		
	CH:9.00m to 14.10m	1	2.00	0.75		1.50			
	CH:14.10m to 17.10m Gap	1	3.00						
	CH:17.10m to 19.10m	1	1.00	0.75		0.75			
	CH:19.10m to 27.50m	1	8.40	0.75		0.00	BS		
	CH:27.50m to 31.50m	1	2.00	0.75		1.50			
	CH:31.50m to 47.30m	1	15.80	0.75		0.00	BS		
	CH:47.30m to 50.40m	1	1.00	0.75		0.75			
	CH:50.40m to 56.20m	1	5.80	0.75		0.00	BS		
	CH:56.20m to 64.00m	1	4.00	0.75		3.00			
	CH:64.00m to 66.40m	1	2.40	0.75		0.00	BS		
	CH:66.40m to 74.20m	1	4.00	0.75		3.00			
	CH:74.20m to 83.40m Gap	1	9.20						
	CH:83.40m to 93.20m	1	4.00	0.75		3.00			
	CH:93.20m to 112.00m	1	18.80	0.75		0.00	BS		
	CH:112.00m to 120.90m Gap	1	8.90						
	CH:120.90m to 125.90m	1	2.00	0.75		1.50			
	CH:125.90m to 129.00m	1	3.10	0.75		0.00	BS		
	CH:129.00m to 159.00m	1	7.00	0.75		5.25			
	CH:159.00m to 161.00m	1	1.00	0.75		0.75			
	RHS From 3rd Main Rd								
	CH:0.00m to 8.80m Gap	1	8.80						
	CH:8.80m to 16.90m	1	8.10	0.75		0.00	BS		
	CH:16.90m to 27.40m	1	7.00	0.75		5.25			
	CH:27.40m to 31.40m	1	4.00	0.75		0.00	BS		
	CH:31.40m to 33.00m	1	0.60	0.75		0.45			
	CH:33.00m to 35.00m	1	2.00	0.75		0.00	BS		
	CH:35.00m to 41.70m	1	4.00	0.75		3.00			
	CH:41.70m to 43.50m	1	1.80	0.75		0.00	BS		
	CH:43.50m to 47.30m	1	2.00	0.75		1.50			
	CH:47.30m to 52.30m	1	5.00	0.75		0.00	BS		
	CH:52.30m to 64.00m	1	6.00	0.75		4.50			
	CH:64.00m to 67.20m Gap	1	3.20						
	CH:67.20m to 73.00m	1	3.00	0.75		2.25			
	CH:73.00m to 76.10m	1	3.10	0.75		0.00	BS		
	CH:76.10m to 85.00m	1	4.00	0.75		3.00			
	CH:85.00m to 93.90m Gap	1	8.90						
	CH:93.90m to 107.30m	1	7.00	0.75		5.25	BS		
	CH:107.30m to 119.80m	1	12.50	0.75		0.00			
	CH:119.80m to 122.50m	1	1.00	0.75		0.75			
	CH:122.50m to 127.40m	1	4.90	0.75		0.00	BS		
	CH:127.40m to 157.40m	1	30.00	0.75		0.00	BS		
	CH:157.40m to 161.00m	1	3.60	0.75		0.00	BS		
				Present Qty		267.57	Sqm	2133.95	570981.00

Contractor

Asst. Engineer

Asst. Exec. Engineer
Yelahanka Sub. Division
(BBMP Ynk. Zn)

37

Name of Work-"Resurfacing Of Roads At Maruthi Nagara 3rd Main 6th, 7th, and 8th Cross Roads in Kempegowda Ward No-01

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
12	Providing and laying Bituminous Concrete with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 per cent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respectscomplete as per the direction of Engineer In charge of the work								
	Asphalt Road								
	Maruthi Nagara								
	6th Cross Rd								
	From 3rd Main Rd								
	Ch:0.00m to 15.00m	1	15.00	(4.15 + 3.90) / 2	0.04	2.42			
	Ch:15.00m to 30.00m	1	15.00	(3.90 + 3.90) / 2	0.04	2.34			
	Ch:30.00m to 45.00m	1	15.00	(3.90 + 4.10) / 2	0.04	2.40			
	Ch:45.00m to 60.00m	1	15.00	(4.10 + 3.30) / 2	0.04	2.22			
	Ch:60.00m to 75.00m	1	15.00	(3.30 + 3.40) / 2	0.04	2.01			
	Ch:75.00m to 90.00m	1	15.00	(3.40 + 3.50) / 2	0.04	2.07			
	Ch:90.00m to 105.00m	1	15.00	(3.50 + 4.30) / 2	0.04	2.34			
	Ch:105.00m to 120.00m	1	15.00	(4.30 + 4.20) / 2	0.04	2.55			
	Ch:120.00m to 135.00m	1	15.00	(4.20 + 4.30) / 2	0.04	2.55			
	Ch:135.00m to 150.00m	1	15.00	(4.30 + 4.40) / 2	0.04	2.61			
	Ch:150.00m to 165.00m	1	15.00	(4.40 + 4.20) / 2	0.04	2.58			
	Ch:165.00m to 175.00m	1	10.00	(3.20 + 3.20) / 2	0.04	1.28			
	Ch:175.00m to 185.00m	1	10.00	(3.20 + 3.20) / 2	0.04	1.28			
	Ch:185.00m to 195.00m	1	10.00	(3.20 + 4.10) / 2	0.04	1.46			
	Ch:195.00m to 201.90m	1	6.90	(4.10 + 3.80) / 2	0.04	1.09			
	Deduction								

Executive Engineer
Bruhat Bengaluru Mahanagara Palike
Yelahanka, Division

Contractor | Asst. Engineer | Asst. Exe. Engineer,

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
	Ramp # 109	-1	8.90	(0.75 + 0.75)/2	0.04	-0.27			
	Ramp # 108	-1	4.30	(0.40 + 0.40)/2	0.04	-0.07			
	7th Cross Rd								
	From End								
	Ch:0.00m to 15.00m	1	15.00	(2.60 + 3.60)/2	0.04	1.86			
	Ch:15.00m to 30.00m	1	15.00	(3.60 + 4.30)/2	0.04	2.37			
	Ch:30.00m to 45.00m	1	15.00	(4.30 + 3.90)/2	0.04	2.46			
	Ch:45.00m to 60.00m	1	15.00	(3.90 + 4.30)/2	0.04	2.46			
	Ch:60.00m to 75.00m	1	15.00	(4.30 + 3.80)/2	0.04	2.43			
	Ch:75.00m to 90.00m	1	15.00	(3.80 + 4.45)/2	0.04	2.48			
	Ch:90.00m to 105.00m	1	15.00	(4.45 + 3.40)/2	0.04	2.36			
	Ch:105.00m to 120.00m	1	15.00	(3.40 + 3.50)/2	0.04	2.07			
	Ch:120.00m to 135.00m	1	15.00	(3.50 + 4.05)/2	0.04	2.27			
	Ch:135.00m to 150.00m	1	15.00	(4.05 + 4.65)/2	0.04	2.61			
	Ch:150.00m to 165.00m	1	15.00	(4.65 + 4.60)/2	0.04	2.78			
	Ch:165.00m to 175.00m	1	10.00	(3.20 + 4.60)/2	0.04	1.56			
	Ch:175.00m to 180.40m	1	5.40	(4.60 + 4.20)/2	0.04	0.95			
	Deduction								
	Ramp # 178	-1	3.40	(0.75 + 0.75)/2	0.04	-0.10			
	Ramp # 177	-1	4.80	(0.70 + 0.70)/2	0.04	-0.13			
	Upto 3rd Main Rd								
	8th Cross Rd								
	From 3rd Main Rd								
	Ch:0.00m to 15.00m	1	15.00	(3.70 + 4.00)/2	0.04	2.31			
	Ch:15.00m to 30.00m	1	15.00	(4.00 + 4.20)/2	0.04	2.46			
	Ch:30.00m to 45.00m	1	15.00	(4.20 + 4.00)/2	0.04	2.46			
	Ch:45.00m to 60.00m	1	15.00	(4.00 + 4.20)/2	0.04	2.46			

Contractor

Executive Engineer
Bruhat Bengaluru Mahanagara Palike
Yelahanka, Division

Asst. Engineer

Asst. Executive Engineer
Yelahanka
Asst. Exec. Engineer,
(BBMP Ynk. Zn)
Yelahanka, Bangalore

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
	Ch:60.00m to 75.00m	1	15.00	(4.20 + 4.60)/2	0.04	2.64			
	Ch:75.00m to 90.00m	1	15.00	(4.60 + 3.90)/2	0.04	2.55			
	Ch:90.00m to 105.00m	1	15.00	(3.90 + 3.90)/2	0.04	2.34			
	Ch:105.00m to 120.00m	1	15.00	(3.90 + 4.30)/2	0.04	2.46			
	Ch:120.00m to 135.00m	1	15.00	(4.30 + 4.30)/2	0.04	2.58			
	Ch:135.00m to 150.00m	1	15.00	(4.30 + 4.45)/2	0.04	2.63			
	Ch:150.00m to 161.00m	1	11.00	(4.45 + 4.10)/2	0.04	1.88			
	Deduction								
	Ramp # 155	-1	3.90	(0.70 + 0.70)/2	0.04	-0.25			
	Ramp	-1	4.90	(0.60 + 0.60)/2	0.04	-0.12			
	Ramp # 127/A	-1	6.70	(0.60 + 0.60)/2	0.04	-0.16			
	Ramp # 135	-1	19.00	(0.70 + 0.70)/2	0.04	-0.53			
	Ramp # 129	-1	9.40	(0.65 + 0.65)/2	0.04	-0.24			
	Tree	-2	0.40	(0.40 + 0.65)/2	0.04	-0.02			
	1stD Cross Rd								
	From 3rd Main Rd								
	Ch:0.00m to 15.00m	1	15.00	(5.00 + 5.10)/2	0.04	3.03			
	Ch:15.00m to 30.00m	1	15.00	(5.10 + 5.20)/2	0.04	3.09			
	Ch:30.00m to 45.70m	1	15.70	(5.20 + 5.50)/2	0.04	3.36			
	Deduction								
	Ramp Srinivasa Nilaya	-1	9.50	(0.70 + 0.70)/2	0.04	-0.27			
	Ramp # 61	-1	5.10	(0.50 + 0.50)/2	0.04	-0.10			
	Ramp # 63	-1	12.00	(0.60 + 0.60)/2	0.04	-0.29			
	Ramp #59	-1	3.00	(0.50 + 0.50)/2	0.04	-0.06			
	Tree	-1	0.50	(0.50 + 0.50)/2	0.04	-0.01			
	Tree	-1	1.60	(1.30 + 1.30)/2	0.04	-0.08			

Executive Engineer
Bruhat Bengaluru Mahanagara Palike
Yelahanka, Division

Contractor

Asst. Engineer

Asst. Exec. Engineer,

Asst. Executive Engineer
Yelahanka Sub Division
(BBMP Yek. Zn)

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
	Road Cutting								
		1	6.00	(0.60 + 0.60) / 2	0.04	0.14			
		2	5.50	(0.75 + 0.75) / 2	0.04	0.33			
		2	6.00	(0.60 + 0.60) / 2	0.04	0.29			
		1	6.00	(0.70 + 0.70) / 2	0.04	0.17			
		2	5.50	(0.75 + 0.75) / 2	0.04	0.33			
		1	6.00	(0.60 + 0.60) / 2	0.04	0.14			
	Pot Holes								
		1	2.50	(1.30 + 1.20) / 2	0.04	0.13			
		2	3.00	(1.40 + 1.30) / 2	0.04	0.32			
		3	2.50	(1.20 + 1.10) / 2	0.04	0.35			
		2	3.00	(1.20 + 1.20) / 2	0.04	0.29			
		2	3.00	(1.50 + 1.50) / 2	0.04	0.36			
	Approaches Road Edges								
		1	30.00	(1.50 + 1.50) / 2	0.04	1.80			
		1	30.00	(1.50 + 1.60) / 2	0.04	1.86			
		1	22.00	(1.60 + 1.60) / 2	0.04	1.41			
					Present Qty	**101.29**	**Cum**	**12409.68**	**1257016.20**

Contractor

Asst. Engineer

Asst. Exe. Engineer,

Asst. Executive Engineer
Yelahanka ... (BBMP ...)
Yelahanka, Bangalore

Name of Work-"Resurfacing Of Roads At Maruthi Nagara 3rd Main 6th, 7th, and 8th Cross Roads in Kempegowda Ward No-01

Detailed Measurements

Measurement Recorded On:

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
13	Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads @ 250 g/ m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holescomplete as per the direction of Engineer In charge of the work								
	Asphalt Road								
	Maruthi Nagara								
	6th Cross Rd								
	From 3rd Main Rd								
	Ch:0.00m to 15.00m	2	15.00	0.10		3.00			
	Ch:15.00m to 30.00m	2	15.00	0.10		3.00			
	Ch:30.00m to 45.00m	2	15.00	0.10		3.00			
	Ch:45.00m to 60.00m	2	15.00	0.10		3.00			
	Ch:60.00m to 75.00m	2	15.00	0.10		3.00			
	Ch:75.00m to 90.00m	2	15.00	0.10		3.00			
	Ch:90.00m to 105.00m	2	15.00	0.10		3.00			
	Ch:105.00m to 120.00m	2	15.00	0.10		3.00			
	Ch:120.00m to 135.00m	2	15.00	0.10		3.00			
	Ch:135.00m to 150.00m	2	15.00	0.10		3.00			
	Ch:150.00m to 165.00m	2	15.00	0.10		3.00			
	Ch:165.00m to 175.00m	2	10.00	0.10		2.00			
	Ch:175.00m to 185.00m	2	10.00	0.10		2.00			
	Ch:185.00m to 195.00m	2	10.00	0.10		2.00			
	Ch:195.00m to 201.90m	2	6.90	0.10		1.38			
	7th Cross Rd								
	From End								
	Ch:0.00m to 15.00m	2	15.00	0.10		3.00			
	Ch:15.00m to 30.00m	2	15.00	0.10		3.00			
	Ch:30.00m to 45.00m	2	15.00	0.10		3.00			
	Ch:45.00m to 60.00m	2	15.00	0.10		3.00			
	Ch:60.00m to 75.00m	2	15.00	0.10		3.00			
	Ch:75.00m to 90.00m	2	15.00	0.10		3.00			
	Ch:90.00m to 105.00m	2	15.00	0.10		3.00			
	Ch:105.00m to 120.00m	2	15.00	0.10		3.00			
	Ch:120.00m to 135.00m	2	15.00	0.10		3.00			
	Ch:135.00m to 150.00m	2	15.00	0.10		3.00			
	Ch:150.00m to 165.00m	2	15.00	0.10		3.00			
	Ch:165.00m to 175.00m	2	10.00	0.10		2.00			

Contractor

Asst. Engineer

Asst. Exec. Engineer

Asst. Executive Engineer Yelahanka (BBMP Yelahanka Zn) Yelahanka, Bangalore

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
	Ch:175.00m to 180.40m	2	5.40	0.10		1.08			
	Upto 3rd Main Rd								
	8th Cross Rd								
	From 3rd Main Rd								
	Ch:0.00m to 15.00m	2	15.00	0.10		3.00			
	Ch:15.00m to 30.00m	2	15.00	0.10		3.00			
	Ch:30.00m to 45.00m	2	15.00	0.10		3.00			
	Ch:45.00m to 60.00m	2	15.00	0.10		3.00			
	Ch:60.00m to 75.00m	2	15.00	0.10		3.00			
	Ch:75.00m to 90.00m	2	15.00	0.10		3.00			
	Ch:90.00m to 105.00m	2	15.00	0.10		3.00			
	Ch:105.00m to 120.00m	2	15.00	0.10		3.00			
	Ch:120.00m to 135.00m	2	15.00	0.10		3.00			
	Ch:135.00m to 150.00m	2	15.00	0.10		3.00			
	Ch:150.00m to 161.00m	2	11.00	0.10		2.20			
	1stD Cross Rd								
	From 3rd Main Rd								
	Ch:0.00m to 15.00m	2	15.00	0.10		3.00			
	Ch:15.00m to 30.00m	2	15.00	0.10		3.00			
	Ch:30.00m to 45.70m	2	15.70	0.10		3.14			
					Present Qty	**117.80**	**Sqm**	**600.43**	**70730.65**
								SUB TOTAL	**4359601.78**
								GST 18%	**784728.32**
								GRAND TOTAL	**5144330.10**

Contractor

Asst. Engineer

Asst. Exec. Engineer

Asst. Executive Engineer
Yelahanka Sub-Division
(BBMP Yelahanka Zone)
Yelahanka, Bangalore

Name of Work-"Resurfacing Of Roads At Maruthi Nagara 3rd Main 6th, 7th, and 8th Cross Roads in Kempegowda Ward No-01.

CLIENT BRUHAT BANGALORE MAHANAGARA PALIKE					

Asst. Executive Engineer
Yelahanka Sub Division
(BBMP Yel. Zn)
Yelahanka, Bangalore

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QC ABSTRACT

Nameof Work: "Resurfacing of roads at Maruthinagara 3rd main 6th,7th and 8th Cross roads in Kempegowda ward no-01", BBMP, Bangalore.

SI. No.	Item	Quantity As Per BOQ	Required No's of testes as per frequency	Actual No's of testes as per frequency	Testes Results
1	Materials(1:3:6)	31.77 Cum	1	1	Pass
2	Steel	3.71 Tonne	1	1	Pass
3	M20	90.82 Cum	5	5	Pass
4	Slab (100mm)	267.57 Sqm	1	1	Pass
5	WMM	104.09 Cum	-	-	Pass
		Gradation	2	2	Pass
		AIV	1	1	Pass
		Shape Test	1	1	Pass
		Atterberg Limits	2	2	Pass
6	DBM	30.94 Cum	-	-	Pass
		Quality of Binder	1	1	Pass
		AIV	1	1	Pass
		Shape Test	1	1	Pass
		Gradation	1	1	Pass
		Specific Gravity	1	1	Pass
		Stability of Mix	1	1	Pass
		Bitumen content	1	1	Pass
7	BC	101.29 Cum	-	-	Pass
		Quality of Binder	1	1	Pass
		AIV	1	1	Pass
		Shape Test	1	1	Pass
		Gradation	1	1	Pass
		Specific Gravity	1	1	Pass
		Stability of Mix	3	3	Pass
		Bitumen content	3	3	Pass

Cubes	0-5 Cum	1Set
	6-15 Cum	2Set
	16-30 Cum	3Set
	31-50 Cum	4Set
	Add 1set for extra 50Cum	

A.E.E.

For CIVIL AIM CONSUTANTS AND ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
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Job No.: CACE/BBMP/BRM/W.No.01/2025-26

Date: 28.06.2025

TEST REPORT

CLIENT	:	**Assistant Executive Engineer**, Yelahanka Sub Division, BBMP, Bangalore.
AGENCY	:	**Vinayaka Enterprises Prop B.R.Mohan** , Contractor, Bangalore.
NAME OF THE WORK	:	"Resurfacing of roads at Maruthinagara 3rd main 6th,7th and 8th Cross roads in Kempegowda ward no-01", BBMP, Bangalore.
SAMPLE ID	:	Cement (Birla OPC 53 Grade)
DATE OF MANUFACTURE		May -2025
DATE OF TESTING		26.06.2025 TO 28.06.2025

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	137 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	328 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	2 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.50 %	-

Note:

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⇒ Any Query regarding the report must be reported within 30days from the date of testing.

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Job No.: CACE/BBMP/BRM/W.No.01/2025-26

Date : 28.06.2025

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency :**Vinayaka Enterprises Prop B.R.Mohan , Contractor, Bangalore.**

Name of Work :"Resurfacing of roads at Maruthinagara 3rd main 6th,7th and 8th Cross roads in Kempegowda ward no-01", BBMP, Bangalore.

Date of Testing : 28.06.2025

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	78	7.80	7.80	92.2	90-100
2.36	161	16.10	23.90	76.1	75-100
1.18	178	17.80	41.70	58.3	55-90
600 Micron	139	13.90	55.60	44.4	35-59
300 Micron	247	24.70	80.30	19.7	8-30
150 Micron	164	16.40	96.70	3.3	0-10

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Job No.: CACE/BBMP/BRM/W.No.01/2025-26

Date : 28.06.2025

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency :**Vinayaka Enterprises Prop B.R.Mohan , Contractor, Bangalore.**

Name of Work :"Resurfacing of roads at Maruthinagara 3rd main 6th,7th and 8th Cross roads in Kempegowda ward no-01", BBMP, Bangalore.

Date of Testing : 28.06.2025

Material : Sand(Masonry)

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	19	1.90	1.90	98.1	90-100
1.18	73	7.30	9.20	90.8	70-100
600 Micron	102	10.20	19.40	80.6	40-100
300 Micron	229	22.90	42.30	57.7	5-70
150 Micron	504	50.40	92.70	7.3	0-15

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Date : 28.06.2025

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency :**Vinayaka Enterprises Prop B.R.Mohan , Contractor, Bangalore.**

Name of Work :"Resurfacing of roads at Maruthinagara 3rd main 6th,7th and 8th Cross roads in Kempegowda ward no-01", BBMP, Bangalore.

Date of Testing : 28.06.2025

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	192	3.8	3.8	96.2	95-100
10	2483	49.7	53.5	46.5	25-55
4.75	2037	40.7	94.2	5.8	0-10

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Job No.: CACE/BBMP/BRM/W.No.01/2025-26

Date : 28.06.2025

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency :**Vinayaka Enterprises Prop B.R.Mohan , Contractor, Bangalore.**

Name of Work :"Resurfacing of roads at Maruthinagara 3rd main 6th,7th and 8th Cross roads in Kempegowda ward no-01", BBMP, Bangalore.

Date of Testing : 28.06.2025

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	182	1.21	1.21	98.79	95-100
20	8197	54.65	55.86	44.14	30-70
10	3289	21.93	77.79	22.21	10-35
4.75	2834	18.89	96.68	3.32	0-5

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Job No.: CACE/BBMP/BRM/W.No.01/2025-26

Date 28.06.2025

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency :**Vinayaka Enterprises Prop B.R.Mohan , Contractor, Bangalore.**

Name of Work :"Resurfacing of roads at Maruthinagara 3rd main 6th,7th and 8th Cross roads in Kempegowda ward no-01", BBMP, Bangalore.

Steel Dia/Length : 8mm,10mm" Fe500 TMT Bars"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test 28.06.2025

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.398	527	619	1.17	14
2	TMT	10	0.621	536	637	1.19	14.5

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ob No.: CACE/BBMP/BRM/W.No.01/2025-26

Date: 04.07.2025

PRECAST SLAB 100 mm Thick(CORE) TEST REPORT

Client	:	: Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Contractor	:	:Vinayaka Enterprises Prop B.R.Mohan , Contractor, Bangalore.
Name of Work	:	:"Resurfacing of roads at Maruthinagara 3rd main 6th,7th and 8th Cross roads in Kempegowda ward no-01", BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	04.07.2025
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	80.00	0.373	2374.59	1.60	0.957	33.20	16.91	18.26	17.47	21.84
2	50.00	82.00	0.387	2403.63	1.64	0.961	34.90	17.77	19.20	18.45	23.06
3	50.00	84.00	0.392	2376.71	1.68	0.965	32.80	16.70	18.04	17.42	21.77

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For CIVIL AIM CONSUTANTS AND ENGINEERS

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Job No.: CACE/BBMP/BRM/W.No.01/2025-26

Date: 08.07.2025

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency :**Vinayaka Enterprises Prop B.R.Mohan , Contractor, Bangalore.**

Name of the work : "Resurfacing of roads at Maruthinagara 3rd main 6th,7th and 8th Cross roads in Kempegowda ward no-01", BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.07.2025	08.07.2025	8.110	339.7	15.10
2	01.07.2025	08.07.2025	8.128	341.9	15.20
3	01.07.2025	08.07.2025	8.133	333.4	14.82

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Job No.: CACE/BBMP/BRM/W.No.01/2025-26

Date: 29.07.2025

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency :**Vinayaka Enterprises Prop B.R.Mohan , Contractor, Bangalore.**

Name of the work : "Resurfacing of roads at Maruthinagara 3rd main 6th,7th and 8th Cross roads in Kempegowda ward no-01", BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.07.2025	29.07.2025	8.178	499.1	22.18
2	01.07.2025	29.07.2025	8.181	503.7	22.39
3	01.07.2025	29.07.2025	8.197	502.4	22.33

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Job No.: CACE/BBMP/BRM/W.No.01/2025-26

Date: 08.07.2025

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency :**Vinayaka Enterprises Prop B.R.Mohan , Contractor, Bangalore.**

Name of the work : "Resurfacing of roads at Maruthinagara 3rd main 6th,7th and 8th Cross roads in Kempegowda ward no-01", BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.07.2025	08.07.2025	8.129	331.9	14.75
2	01.07.2025	08.07.2025	8.132	330.4	14.68
3	01.07.2025	08.07.2025	8.149	337.8	15.01

Note:

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A.E.E.

For CIVIL AIM CONSULTANTS AND ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

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(Building Geo-Tech & Highway Materials Testing Laboratory)
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Job No.: CACE/BBMP/BRM/W.No.01/2025-26

Date: 29.07.2025

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency :**Vinayaka Enterprises Prop B.R.Mohan , Contractor, Bangalore.**

Name of the work : "Resurfacing of roads at Maruthinagara 3rd main 6th,7th and 8th Cross roads in Kempegowda ward no-01", BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.07.2025	29.07.2025	8.182	503.3	22.37
2	01.07.2025	29.07.2025	8.197	509.1	22.63
3	01.07.2025	29.07.2025	8.209	513.6	22.83

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Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

Job No.: CACE/BBMP/BRM/W.No.01/2025-26

Date: 10.07.2025

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency :**Vinayaka Enterprises Prop B.R.Mohan , Contractor, Bangalore.**

Name of the work : "Resurfacing of roads at Maruthinagara 3rd main 6th,7th and 8th Cross roads in Kempegowda ward no-01", BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.07.2025	10.07.2025	8.142	345.3	15.35
2	03.07.2025	10.07.2025	8.157	348.6	15.49
3	03.07.2025	10.07.2025	8.139	347.7	15.45

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Job No.: CACE/BBMP/BRM/W.No.01/2025-26

Date: 31.07.2025

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency :**Vinayaka Enterprises Prop B.R.Mohan , Contractor, Bangalore.**

Name of the work : "Resurfacing of roads at Maruthinagara 3rd main 6th,7th and 8th Cross roads in Kempegowda ward no-01", BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.07.2025	31.07.2025	8.192	506.3	22.50
2	03.07.2025	31.07.2025	8.199	507.1	22.54
3	03.07.2025	31.07.2025	8.183	512.4	22.77

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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Agency :**Vinayaka Enterprises Prop B.R.Mohan , Contractor, Bangalore.**

Name of the work : "Resurfacing of roads at Maruthinagara 3rd main 6th,7th and 8th Cross roads in Kempegowda ward no-01", BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.07.2025	10.07.2025	8.160	337.1	14.98
2	03.07.2025	10.07.2025	8.169	339.7	15.10
3	03.07.2025	10.07.2025	8.147	344.4	15.31

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Date: 31.07.2025

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency :**Vinayaka Enterprises Prop B.R.Mohan , Contractor, Bangalore.**

Name of the work : "Resurfacing of roads at Maruthinagara 3rd main 6th,7th and 8th Cross roads in Kempegowda ward no-01", BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.07.2025	31.07.2025	8.213	505.1	22.45
2	03.07.2025	31.07.2025	8.221	506.9	22.53
3	03.07.2025	31.07.2025	8.202	509.3	22.64

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client **: Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency **:Vinayaka Enterprises Prop B.R.Mohan , Contractor, Bangalore.**

Name of the work : "Resurfacing of roads at Maruthinagara 3rd main 6th,7th and 8th Cross roads in Kempegowda ward no-01", BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.07.2025	10.07.2025	8.148	342.7	15.23
2	03.07.2025	10.07.2025	8.155	344.9	15.33
3	03.07.2025	10.07.2025	8.157	345.1	15.34

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Agency	:Vinayaka Enterprises Prop B.R.Mohan , Contractor, Bangalore.
Name of the work	: "Resurfacing of roads at Maruthinagara 3rd main 6th,7th and 8th Cross roads in Kempegowda ward no-01", BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.07.2025	31.07.2025	8.199	509.3	22.64
2	03.07.2025	31.07.2025	8.202	510.7	22.70
3	03.07.2025	31.07.2025	8.209	511.8	22.75

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Job No.: CACE/BBMP/BRM/W.No.01/2025-26

Date : 14.07.2025

ATTERBERG LIMITS TEST FOR WMM

Client — **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency — **Vinayaka Enterprises Prop B.R.Mohan , Contractor, Bangalore.**

Name of Work — "Resurfacing of roads at Maruthinagara 3rd main 6th,7th and 8th Cross roads in Kempegowda ward no-01", BBMP, Bangalore.

IS Code: : IS 2720(Part 5):1985

Date of Testing :12.07.2025 TO 14.07.2025

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	20.50	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Job No.: CACE/BBMP/BRM/W.No.01/2025-26

Date : 14.07.2025

ATTERBERG LIMITS TEST FOR WMM

Client **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency **Vinayaka Enterprises Prop B.R.Mohan , Contractor, Bangalore.**

Name of Work "Resurfacing of roads at Maruthinagara 3rd main 6th,7th and 8th Cross roads in Kempegowda ward no-01", BBMP, Bangalore.

IS Code: : IS 2720(Part 5):1985

Date of Testing :12.07.2025 TO 14.07.2025

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	22.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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For CIVIL AIM CONSUTANTS AND ENGINEERS

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Job No.: CACE/BBMP/BRM/W.No.01/2025-26

Date: 14.07.2025

Aggregate Impact Value

Client	**Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**
Agency	**Vinayaka Enterprises Prop B.R.Mohan , Contractor, Bangalore.**
Name of the Work	"Resurfacing of roads at Maruthinagara 3rd main 6th,7th and 8th Cross roads in Kempegowda ward no-01", BBMP, Bangalore.
IS Code	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	14.07.2025

Sl No.	Details	Test No. 1	Test No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	382	389	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	87	85.5	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	295	303.5	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	22.77	21.98	**22.38**

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

A.E.E.

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Job No.: CACE/BBMP/BRM/W.No.01/2025-26

Date : 14.07.2025

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**
Agency	**Vinayaka Enterprises Prop B.R.Mohan , Contractor, Bangalore.**
Name of Work	"Resurfacing of roads at Maruthinagara 3rd main 6th,7th and 8th Cross roads in Kempegowda ward no-01", BBMP, Bangalore.
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	14.07.2025

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	11.70	12.40	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	12.60	13.10	
	Combined Flakiness & Elongation index	24.30	25.50	

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Job No.: CACE/BBMP/BRM/W.No.01/2025-26

Date : 14.07.2025

GRADATION FOR WMM

Client — **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency — **Vinayaka Enterprises Prop B.R.Mohan , Contractor, Bangalore.**

Name of Work — "Resurfacing of roads at Maruthinagara 3rd main 6th,7th and 8th Cross roads in Kempegowda ward no-01", BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing : 14.07.2025

Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	191	191	1.9	98.1	95-100
22.4	2514	2705	27.1	73.0	60-80
11.2	2143	4848	48.5	51.5	40-60
4.75	1801	6649	66.5	33.5	25-40
2.36	1143	7792	77.9	22.1	15-30
0.600	619	8411	84.1	15.9	8-22
0.075	1175	9586	95.9	4.1	0-5

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GRADATION FOR WMM

Client: **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency: **Vinayaka Enterprises Prop B.R.Mohan , Contractor, Bangalore.**

Name of Work: "Resurfacing of roads at Maruthinagara 3rd main 6th,7th and 8th Cross roads in Kempegowda ward no-01", BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing : 14.07.2025

Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	178	178	1.8	98.2	95-100
22.4	2493	2671	26.7	73.3	60-80
11.2	2132	4803	48.0	52.0	40-60
4.75	1834	6637	66.4	33.6	25-40
2.36	1149	7786	77.9	22.1	15-30
0.600	602	8388	83.9	16.1	8-22
0.075	1315	9703	97.0	3.0	0-5

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514

JobNo: CACE/BBMP/BRM/W.No.01/2025-26 Date : 21.07.2025

TEST RESULTS OF AGGREGATE SHAPE TEST
(Flakiness & Elongation)

Client Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Agency Vinayaka Enterprises Prop B.R.Mohan , Contractor, Bangalore.

Name of work "Resurfacing of roads at Maruthinagara 3rd main 6th,7th and 8th Cross roads in Kempegowda ward no-01", BBMP, Bangalore.

BIS Code : IS 2386 Part (1):1963

Date of Test : 21.07.2025

Type of Mix : Dense Graded Bituminous Macadam

Sl.No.	Flakiness Index Value(%)	Elongation Index Value(%)	Total(Combined Flakiness and Elongation)(%)	Requirements
1	12.50	13.60	26.10	Maximum allowable Combined Flakiness and Elongation Indices for Dense Graded Bituminous Macadam is 35% as per Table 500.8 MORTH Specification.
2	13.10	13.20	26.30	

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Job No.: CACE/BBMP/BRM/W.No.01/2025-26

Date: 21.07.2025

Aggregate Gradation Test

Client	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Agency	Vinayaka Enterprises Prop B.R.Mohan , Contractor, Bangalore.
Name of the Work	"Resurfacing of roads at Maruthinagara 3rd main 6th,7th and 8th Cross roads in Kempegowda ward no-01", BBMP, Bangalore.
BIS Code	IS 2386(Part 1):1963(RA 2011)
Sample I / D	Hot mix Plant, Bangalore.
Type of Mix	Dense Graded Bituminous Macadam
Date of Testing	21.07.2025

Total Weight of Sample: **10000** gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	Requirement as per MORTH table 500.10	Remarks
37.50	0	0.0	0	100	100	Gradation satisfies Grade-II MORTH specification
26.50	727	7.3	7.27	92.73	90 - 100	
19.00	1211	12.1	19.38	80.62	71 - 95	
13.20	1379	13.8	33.17	66.83	56 - 80	
4.75	2517	25.2	58.34	41.66	38 - 54	
2.36	1084	10.8	69.18	30.82	28 - 42	
0.300	1313	13.1	82.31	17.69	7 - 21	
0.075	1163	11.6	93.94	6.06	2 - 8	

Total Weight of Sample: **10000** gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	Requirement as per MORTH table 500.10	Remarks
37.5	0	0.0	0	100	100	Gradation satisfies Grade-II MORTH specification
26.5	705	7.1	7.05	92.95	90 - 100	
19	1411	14.1	21.16	78.84	71 - 95	
13.2	1129	11.3	32.45	67.55	56 - 80	
4.75	2409	24.1	56.54	43.46	38 - 54	
2.360	1162	11.6	68.16	31.84	28 - 42	
0.300	1308	13.1	81.24	18.76	7 - 21	
0.075	1175	11.8	92.99	7.01	2 - 8	

Note:
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Authorised Signatory

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Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

JobNo: CACE/BBMP/BRM/W.No.01/2025-26 Date : 21.07.2025

TEST RESULTS OF AGGREGATE IMPACT VALUE

Client **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency **Vinayaka Enterprises Prop B.R.Mohan , Contractor, Bangalore.**

Name of work "Resurfacing of roads at Maruthinagara 3rd main 6th,7th and 8th Cross roads in Kempegowda ward no-01", BBMP, Bangalore.

Source / Location : Hot Mix Plant, Bangalore

BIS Code : IS 2386 Part (4):1963

Type of Mix : Dense Graded Bituminous Macadam

Date of test : 21.07.2025

Sl No.	Details	Trial No. 1	Trial No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W1 g	381	384	
2	Weight of agregate passing 2.36 mm sieve after the test = W2 g	87	89	
3	Weight of aggregate retained 2.36 mm sieve after the test = W3 g	294	295	
5	Aggregate Impact value = percent fines 100* (W2/W1) percent	22.83	23.18	**23.01**

Comments:

→ Maximum allowable Aggregate Impact value for Dense Graded Bituminous Macadam is 27% (Table 500-8 of MORTH specification)

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Job No: CACE/BBMP/BRM/W.No.01/2025-26

Date: **21.07.2025**

TEST REPORT ON PAVING BITUMEN

Client	**Assistant Executive Engineer**, Yelahanka Sub Division, BBMP, Bangalore.
Agency	**Vinayaka Enterprises Prop B.R.Mohan** , Contractor, Bangalore.
Name of work	"Resurfacing of roads at Maruthinagara 3rd main 6th,7th and 8th Cross roads in Kempegowda ward no-01", BBMP, Bangalore.
BIS Code	IS 73:2013,IS 1203:1978, IS 1208:1978, IS 1205:1978, IS1448(P-69):1969
Date of Testing	**21.07.2025**
Type of Mix	**Dense Graded Bituminous Macadam , VG 30**
Source of Location	**Hot Mix Plant**

The results of the tests conducted on the bitumen sample using for Dense Graded Bituminous Macadam

Sl.No	Description	Test Result	Requirement as per IS:73:2013
1	Penetration at 25 0C, 100gms, 5sec, 1/10 mm	59	Min 45
2	Softening point, 0C	51	Min 47
3	Ductility at 250C, cm	>115	Min40
4	Flash Point, 0C	275	Min 220

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For CIVIL AIM CONSUTANTS AND ENGINEERS

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Job No.: CACE/BBMP/BRM/W.No.01/2025-26

Date: 23.07.2025

Specific Gravity And Water Absorption Test

Client	**Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**
Agency	**Vinayaka Enterprises Prop B.R.Mohan , Contractor, Bangalore.**
Name of the Work	"Resurfacing of roads at Maruthinagara 3rd main 6th,7th and 8th Cross roads in Kempegowda ward no-01", BBMP, Bangalore.
BIS Code	IS 2386(Part 3):1963
Type of Mix	Dense Graded Bituminous Macadam
Date of Testing	21.07.2025 to 23.07.2025

Sl. No.	Details	Notation	Test Number			Mean Value
			Test 1	Test 2	Test 3	
1	Weight of aggregate suspended in water with the basket	W_1 g	2024	2026	2027	
2	Weight of basket suspended in water	W_2 g	757	758	756	
3	Weight of saturated aggregate in water	$(W_1 - W_2) = W_s$ g	1267	1268	1271	
4	Weight of saturated surface dry aggregate in air	W_3 g	2015	2017	2018	
5	Weight of water equal to the volume of the aggregate	$(W_3 - W_S)$ g	748	749	747	
6	Weight of oven dried aggregate	W_4 g	2008	2009	2009	
7	Specific Gravity	$W_4/(W_3-W_S)$	2.684	2.682	2.689	2.685
8	Apparent Specific gravity	$W_4/(W_4-W_S)$	2.710	2.711	2.722	2.714
9	Water Absorption	$((W_3-W_4)*100)/W_4$	0.35%	0.40%	0.45%	0.40%

Comments:

→ Maximum allowable Aggregate Water absorption value for Dense Graded Bituminous Macadam is 2.0%(As per MORTH table 500.8)

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Job No.: CACE/BBMP/BRM/W.No.01/2025-26

Date: 24.07.2025

TEST REPORT ON STABILITY OF MIX

Client	:	**Assistant Executive Engineer**, Yelahanka Sub Division, BBMP, Bangalore.
Agency	:	**Vinayaka Enterprises Prop B.R.Mohan** , Contractor, Bangalore.
Name of the Work	:	"Resurfacing of roads at Maruthinagara 3rd main 6th,7th and 8th Cross roads in Kempegowda ward no-01", BBMP, Bangalore.
Type of Mix	:	Dense Graded Bituminous Macadam
Date of Testing	:	24.07.2025

The results of the tests conducted on the Dense Graded Bituminous Macadam mix sample are as follows:

Sl. No	Description	Test Result 1	Test Result 2	Requirement as per MORTH (Table 500-19)
1	Marshal Stability, Kn	9.89	9.46	9 Kn (min)
2	Marshal flow, mm	3.29	2.93	2 – 4
3	Percent air voids in Mineral Aggregate	13.79	13.49	13 – 15
4	Voids in Compacted Mix	4.02	3.78	3 – 6
5	Percent Voids filled with Bitumen	70.12	68.02	65 - 75
6	Density, g/cc	2.23	2.21	--

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Job No.: CACE/BBMP/BRM/W.No.01/2025-26

Date: 24.07.2025

BITUMEN CONTENT AND GRADATION DETERMINATION OF DENSE GRADED BITUMINOUS MACADAM MIX
AASHTO T 164 & AASHTO T 30

Client	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Agency	Vinayaka Enterprises Prop B.R.Mohan , Contractor, Bangalore.
Name of the Work	"Resurfacing of roads at Maruthinagara 3rd main 6th,7th and 8th Cross roads in Kempegowda ward no-01", BBMP, Bangalore..
Date of Testing	24.07.2025

BITUMEN CONTENT DETERMINATION

Description	Test 1	Test 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	477.5	477
3. Weight of Asphalt and Mineral matter Extracted, g	-	-
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g		
6. Weight of Bitumen Extracted, g. (corrected)	22.50	23.00
7. Bitumen content in %	4.50	4.60
8. Average	4.55	

GRADATION AFTER EXTRACTION

SIEVE SIZE	Test 1				Requirement as per MORTH table 500.10
mm	Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	
37.5	0	0	0	100	100
26.5	32.9	32.9	6.9	93.1	90 - 100
19	74.5	107.4	22.5	77.5	71 - 95
13.2	69.1	176.5	37.0	63.0	56 - 80
4.75	83.7	260.2	54.5	45.5	38 - 54
2.360	75.4	335.6	70.3	29.7	28 - 42
0.300	87.7	423.3	88.6	11.4	7 - 21
0.075	25.6	448.9	94.0	6.0	2 - 8

SIEVE SIZE	Test 2				Requirement as per MORTH table 500.10
mm	Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	
37.5	0	0	0	100	100
26.5	37.9	37.9	7.9	92.1	90 - 100
19	71.2	109.1	22.9	77.1	71 - 95
13.2	69.6	178.7	37.5	62.5	56 - 80
4.75	84.10	262.8	55.1	44.9	38 - 54
2.360	79.3	342.1	71.7	28.3	28 - 42
0.300	81.8	423.9	88.9	11.1	7 - 21
0.075	23.7	447.6	93.8	6.2	2 - 8

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Job No.: CACE/BBMP/BRM/W.No.01/2025-26

Date: 22.07.2025

Aggregate Impact Value

Client	**Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**
Agency	**Vinayaka Enterprises Prop B.R.Mohan , Contractor, Bangalore.**
Name of the Work	"Resurfacing of roads at Maruthinagara 3rd main 6th,7th and 8th Cross roads in Kempegowda ward no-01", BBMP, Bangalore.
BIS Code	IS 2386(Part 4):1963
Source / Location	Hot Mix Plant, Bangalore
Type of Mix	Bituminous Concrete
Date of Testing	22.07.2025

Sl No.	**Details**	**Test No.**		**Average**
		1	**2**	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	380	389	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	84	86	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	296	303	
4	Aggregate Impact value = percent fines 100* (W_2/W_1) percent	22.11	22.11	**22.11**

Comments:

→ Maximum allowable Aggregate Impact value for Bituminous Concrete is 24%(MORTH table no.500.16)

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Job No.: CACE/BBMP/BRM/W.No.01/2025-26

Date : 22.07.2025

Aggregate Gradation Test

IS : 2386 Part I

Client	**Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**
Agency	**Vinayaka Enterprises Prop B.R.Mohan , Contractor, Bangalore.**
Name of the Work	"Resurfacing of roads at Maruthinagara 3rd main 6th,7th and 8th Cross roads in Kempegowda ward no-01", BBMP, Bangalore.
BIS Code	IS 2386(Part 1):1963
Sample I / D	Hot Mix Plant, Bangalore
Type of Mix	Bituminous Concrete
Date of Testing	22.07.2025

Total Weight of Sample: **5000** gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	Requirement as per MORTH table 500.17	Remarks
19	0	0	0	100	100	Gradation satisfies Bituminous concrete Grade-II specification as per MORTH
13.2	431	8.62	8.62	91.38	90 - 100	
9.5	482	9.64	18.26	81.74	70 - 88	
4.75	625	12.50	30.76	69.24	53 - 71	
2.36	675	13.50	44.26	55.74	42 - 58	
1.18	519	10.38	54.64	45.36	34 - 48	
0.600	543	10.86	65.50	34.50	26 - 38	
0.300	479	9.58	75.08	24.92	18 - 28	
0.150	332	6.64	81.72	18.28	12 - 20	
0.075	475	9.50	91.22	8.78	4 - 10	

Total Weight of Sample: **5000** gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	Requirement as per MORTH table 500.17	Remarks
19	0	0	0	100	100	Gradation satisfies Bituminous concrete Grade-II specification as per MORTH
13.2	423	8.46	8.46	91.54	90 - 100	
9.5	529	10.58	19.04	80.96	70 - 88	
4.75	641	12.82	31.86	68.14	53 - 71	
2.36	549	10.98	42.84	57.16	42 - 58	
1.18	551	11.02	53.86	46.14	34 - 48	
0.600	542	10.84	64.70	35.30	26 - 38	
0.300	621	12.42	77.12	22.88	18 - 28	
0.150	199	3.98	81.10	18.90	12 - 20	
0.075	548	10.96	92.06	7.94	4 - 10	

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Job No.: CACE/BBMP/BRM/W.No.01/2025-26

Date: 22.07.2025

TEST REPORT

Client	:	**Assistant Executive Engineer**, Yelahanka Sub Division, BBMP, Bangalore.
Agency	:	**Vinayaka Enterprises Prop B.R.Mohan**, Contractor, Bangalore.
Name of the work	:	"Resurfacing of roads at Maruthinagara 3rd main 6th,7th and 8th Cross roads in Kempegowda ward no-01", BBMP, Bangalore.
IS Code	:	IS 73:2013, IS 1203:1978(RA 2008), IS 1205:1978(RA 2009), IS 1208:1978(RA 2009), IS 1209:1978(RA 2009)
Source of location	:	Hot mix Plant, Bangalore, VG 30
Date of testing	:	22.07.2025

The results of the tests conducted on the bitumen sample using for Bituminous Concrete

Sl. No	Description	Test Result	Requirement as per IS:73:2013
1	Penetration at 25 ^{0}C, 1/10 mm	58	Min 45
2	Softening point, ^{0}C	54	Min. 47
3	Ductility at 27^{0}C, cm	> 105	Min. 40
4	Flash Point, ^{0}C	274	Min. 220

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Job No.: CACE/BBMP/BRM/W.No.01/2025-26

Date : 22.07.2025

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**
Agency	**Vinayaka Enterprises Prop B.R.Mohan , Contractor, Bangalore.**
Name of Work	"Resurfacing of roads at Maruthinagara 3rd main 6th,7th and 8th Cross roads in Kempegowda ward no-01", BBMP, Bangalore.
Technical Reference	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Bituminous Concrete
Date of Testing	22.07.2025

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 500.16
1	Flakiness Index	12.3	11.9	Combined Flakiness & Elongation index Max 35%
2	Elongation Index	12.9	13.5	
	Combined Flakiness & Elongation index	25.20	25.40	

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Job No.: CACE/BBMP/BRM/W.No.01/2025-26

Date : 24.07.2025

Specific Gravity And Water Absorption Test

Client	**Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**
Agency	**Vinayaka Enterprises Prop B.R.Mohan , Contractor, Bangalore.**
Name of the Work	"Resurfacing of roads at Maruthinagara 3rd main 6th,7th and 8th Cross roads in Kempegowda ward no-01", BBMP, Bangalore.
BIS Code	IS 2386(Part 3):1963
Type of Mix	Bituminous Concrete
Date of Testing	22.07.2025 TO 24.07.2025

Sl. No.	Details	Notation	Test Number			Mean Value
			Test 1	Test 2	Test 3	
1	Weight of aggregate suspended in water with the basket	W_1 g	2025	2023	2024	
2	Weight of basket suspended in water	W_2 g	755	755	755	
3	Weight of saturated aggregate in water	$(W_1 - W_2) = W_s$ g	1270	1268	1269	
4	Weight of saturated surface dry aggregate in air	W_3 g	2014	2015	2018	
5	Weight of water equal to the volume of the aggregate	$(W_3 - W_S)$ g	744	747	749	
6	Weight of oven dried aggregate	W_4 g	2008	2009	2010	
7	Specific Gravity	$W_4/(W_3-W_S)$	2.699	2.689	2.684	2.691
8	Apparent Specific gravity	$W_4/(W_4-W_S)$	2.721	2.711	2.713	2.715
9	Water Absorption	$((W_3-W_4)*100)/W_4$	0.30%	0.30%	0.40%	0.33%

Comments:

→ Maximum allowable Aggregate Water absorption value for Bituminous Concrete is 2.0%(MORTH table 500.16)

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Job No.: CACE/BBMP/BRM/W.No.01/2025-26

Date: 25.07.2025

TEST REPORT ON STABILITY OF MIX

Client	:	**Assistant Executive Engineer**, Yelahanka Sub Division, BBMP, Bangalore.
Agency	:	**Vinayaka Enterprises Prop B.R.Mohan**, Contractor, Bangalore.
Name of the Work	:	"Resurfacing of roads at Maruthinagara 3rd main 6th,7th and 8th Cross roads in Kempegowda ward no-01", BBMP, Bangalore.
Source of location	:	Hot mix Plant, Bangalore
Type of Mix	:	Bituminous Concrete
Date of Testing	:	25.07.2025

The results of the tests conducted on the Bituminous Concrete mix sample are as follows:

Sl. No	Description	Test Result 1	Test Result 2	Requirement as per MORTH (Table 500-19)
1	Marshal Stability, Kn	10.02	9.72	9 Kn (min)
2	Marshal flow, mm	2.93	3.09	2 – 4
3	Percent air voids in Mineral Aggregate	14.15	14.34	13 – 15
4	Voids in Compacted Mix	4.91	5.02	3 – 6
5	Percent Voids filled with Bitumen	71.29	69.37	65 - 75
6	Density, g/cc	2.25	2.24	--

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Job No.: CACE/BBMP/BRM/W.No.01/2025-26

Date: 25.07.2025

TEST REPORT ON STABILITY OF MIX

Client	:	**Assistant Executive Engineer**, Yelahanka Sub Division, BBMP, Bangalore.
Agency	:	**Vinayaka Enterprises Prop B.R.Mohan**, Contractor, Bangalore.
Name of the Work	:	"Resurfacing of roads at Maruthinagara 3rd main 6th,7th and 8th Cross roads in Kempegowda ward no-01", BBMP, Bangalore.
Source of location	:	Hot mix Plant, Bangalore
Type of Mix	:	Bituminous Concrete
Date of Testing	:	25.07.2025

The results of the tests conducted on the Bituminous Concrete mix sample are as follows:

Sl. No	Description	Test Result 1	Test Result 2	Requirement as per MORTH (Table 500-19)
1	Marshal Stability, Kn	9.18	10.34	9 Kn (min)
2	Marshal flow, mm	2.47	3.18	2 – 4
3	Percent air voids in Mineral Aggregate	13.69	14.09	13 – 15
4	Voids in Compacted Mix	3.48	4.78	3 – 6
5	Percent Voids filled with Bitumen	71.09	72.52	65 - 75
6	Density, g/cc	2.21	2.26	--

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Job No.: CACE/BBMP/BRM/W.No.01/2025-26

Date: 25.07.2025

TEST REPORT ON STABILITY OF MIX

Client	:	**Assistant Executive Engineer**, Yelahanka Sub Division, BBMP, Bangalore.
Agency	:	**Vinayaka Enterprises Prop B.R.Mohan** , Contractor, Bangalore.
Name of the Work	:	"Resurfacing of roads at Maruthinagara 3rd main 6th,7th and 8th Cross roads in Kempegowda ward no-01", BBMP, Bangalore.
Source of location	:	Hot mix Plant, Bangalore
Type of Mix	:	Bituminous Concrete
Date of Testing	:	25.07.2025

The results of the tests conducted on the Bituminous Concrete mix sample are as follows:

Sl. No	Description	Test Result 1	Test Result 2	Requirement as per MORTH (Table 500-19)
1	Marshal Stability, Kn	9.67	10.51	9 Kn (min)
2	Marshal flow, mm	2.91	3.84	2 – 4
3	Percent air voids in Mineral Aggregate	13.52	14.35	13 – 15
4	Voids in Compacted Mix	3.16	4.69	3 – 6
5	Percent Voids filled with Bitumen	67.98	68.16	65 - 75
6	Density, g/cc	2.27	2.26	--

Note:

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⇒ The results indicated above are based on the tests carried out on the samples collected at the site.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL AIM CONSUTANTS AND ENGINEERS

Authorised Signatory

514

CIVIL AIM CONSULTANTS & ENGINEERS
(Building Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001-2015 Certified Company
NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/BRM/W.No.01/2025-26 Date : 25.07.2025

BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE

AASHTO T 164 & AASHTO T 30

CLIENT	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
AGENCY	Vinayaka Enterprises Prop B.R.Mohan , Contractor, Bangalore.
NAME OF THE WORK	"Resurfacing of roads at Maruthinagara 3rd main 6th,7th and 8th Cross roads in Kempegowda ward no-01", BBMP, Bangalore.
SAMPLE ID	Hot Mix Plant, Bangalore
DATE OF TESTING	25.07.2025

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Sample 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	472.5	473
3. Weight of Asphalt and Mineral matter Extracted, g	27.5	27
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g	-	-
6. Weight of Bitumen Extracted, g. (corrected)	27.5	27
7. Bitumen content in %	5.50	5.40
8. Average	5.45	

GRADATION AFTER EXTRACTION

SIEVE SIZE mm	Test 1				Requirement as per MORTH table 500.17
	Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	
19	0	0	0	100	100
13.2	15.7	15.7	3.3	96.7	90 - 100
9.5	61.5	77.2	16.3	83.7	70 - 88
4.75	91.1	168.3	35.6	64.4	53 - 71
2.36	47.8	216.1	45.7	54.3	42 - 58
1.18	36.2	252.3	53.4	46.6	34 - 48
0.600	54.2	306.5	64.9	35.1	26 - 38
0.300	41.9	348.4	73.7	26.3	18 - 28
0.150	36.3	384.7	81.4	18.6	12 - 20
0.075	52.5	437.2	92.5	7.5	4 - 10

SIEVE SIZE mm	Test 2				Requirement as per MORTH table 500.17
	Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	
19	0	0	0	100	100
13.2	17.1	17.1	3.6	96.4	90 - 100
9.5	60.9	78	16.5	83.5	70 - 88
4.75	90.4	168.4	35.6	64.4	53 - 71
2.36	43.6	212	44.8	55.2	42 - 58
1.18	50.9	262.9	55.6	44.4	34 - 48
0.600	52.4	315.3	66.7	33.3	26 - 38
0.300	49.2	364.5	77.1	22.9	18 - 28
0.150	39.8	404.3	85.5	14.5	12 - 20
0.075	40.6	444.9	94.1	5.9	4 - 10

A.E.E.

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For CIVIL AIM CONSULTANTS AND ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

514

Job No.: CACE/BBMP/BRM/W.No.01/2025-26

Date : 25.07.2025

BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE

AASHTO T 164 & AASHTO T 30

CLIENT	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
AGENCY	Vinayaka Enterprises Prop B.R.Mohan , Contractor, Bangalore.
NAME OF THE WORK	"Resurfacing of roads at Maruthinagara 3rd main 6th,7th and 8th Cross roads in Kempegowda ward no-01", BBMP, Bangalore.
SAMPLE ID	Hot Mix Plant, Bangalore
DATE OF TESTING	25.07.2025

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Sample 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	472	472.5
3. Weight of Asphalt and Mineral matter Extracted, g	28	27.5
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g	-	-
6. Weight of Bitumen Extracted, g. (corrected)	28	27.5
7. Bitumen content in %	5.60	5.50
8. Average	5.55	

GRADATION AFTER EXTRACTION

SIEVE SIZE	Test 1				Requirement as
mm	Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	per MORTH table 500.17
19	0	0	0	100	100
13.2	13.3	13.3	2.8	97.2	90 - 100
9.5	67.2	80.5	17.1	82.9	70 - 88
4.75	91.8	172.3	36.5	63.5	53 - 71
2.36	46.2	218.5	46.3	53.7	42 - 58
1.18	39.8	258.3	54.7	45.3	34 - 48
0.600	51.6	309.9	65.7	34.3	26 - 38
0.300	44.5	354.4	75.1	24.9	18 - 28
0.150	33.8	388.2	82.2	17.8	12 - 20
0.075	55.4	443.6	94.0	6.0	4 - 10

SIEVE SIZE	Test 2				Requirement as
mm	Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	per MORTH table 500.17
19	0	0	0	100	100
13.2	15.2	15.2	3.2	96.8	90 - 100
9.5	63.7	78.9	16.7	83.3	70 - 88
4.75	88.5	167.4	35.4	64.6	53 - 71
2.36	45.9	213.3	45.1	54.9	42 - 58
1.18	48.3	261.6	55.4	44.6	34 - 48
0.600	51.9	313.5	66.3	33.7	26 - 38
0.300	41.3	354.8	75.1	24.9	18 - 28
0.150	39.3	394.1	83.4	16.6	12 - 20
0.075	41.2	435.3	92.1	7.9	4 - 10

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BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE

AASHTO T 164 & AASHTO T 30

CLIENT	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
AGENCY	Vinayaka Enterprises Prop B.R.Mohan , Contractor, Bangalore.
NAME OF THE WORK	"Resurfacing of roads at Maruthinagara 3rd main 6th,7th and 8th Cross roads in Kempegowda ward no-01", BBMP, Bangalore.
SAMPLE ID	Hot Mix Plant, Bangalore
DATE OF TESTING	25.07.2025

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Sample 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	472	473
3. Weight of Asphalt and Mineral matter Extracted, g	28	27
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g	-	-
6. Weight of Bitumen Extracted, g. (corrected)	28	27
7. Bitumen content in %	5.60	5.40
8. Average	5.50	

GRADATION AFTER EXTRACTION

SIEVE SIZE	Test 1				Requirement as per MORTH table 500.17
mm	Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	
19	0	0	0	100	100
13.2	18.2	18.2	3.9	96.1	90 - 100
9.5	61.1	79.3	16.8	83.2	70 - 88
4.75	79.6	158.9	33.7	66.3	53 - 71
2.36	45.2	204.1	43.2	56.8	42 - 58
1.18	50.8	254.9	54.0	46.0	34 - 48
0.600	54.3	309.2	65.5	34.5	26 - 38
0.300	47.8	357	75.6	24.4	18 - 28
0.150	33.6	390.6	82.8	17.2	12 - 20
0.075	55.6	446.2	94.5	5.5	4 - 10

SIEVE SIZE	Test 2				Requirement as per MORTH table 500.17
mm	Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	
19	0	0	0	100	100
13.2	16.9	16.9	3.6	96.4	90 - 100
9.5	69.7	86.6	18.3	81.7	70 - 88
4.75	89.4	176	37.2	62.8	53 - 71
2.36	47.2	223.2	47.2	52.8	42 - 58
1.18	42.6	265.8	56.2	43.8	34 - 48
0.600	57.3	323.1	68.3	31.7	26 - 38
0.300	47.9	371	78.4	21.6	18 - 28
0.150	37.4	408.4	86.3	13.7	12 - 20
0.075	31.6	440	93.0	7.0	4 - 10

A.E.E.

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For CIVIL AIM CONSULTANTS AND ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

BRUHAT BANGALORE MAHANAGARA PALIKE

,MP/EE/YNK.D/KPPP-16/W.O/ 14 /2025-26

Office of the Executive Engineer,
Yelahanka Division
B.B.M.P. Bangalore-64
Date: 26/05/2025

To,
VINAYAKA ENTERPRISES, Prop B.R.Mohan
No :10, 1st B Main, Chikkabommasandra,
Yelahanka New Town, Bangalore-560064

WORK ORDER

Sub: "Resurfacing of roads at Maruthinagara 3rd main 6th, 7th and 8th cross roads in Kempegowda ward no -01"

Ref: Your Agreement No: EE/YNK/KPPP-16/AG/ /2025-26 Dated:

* * * * *

Pursuant to your furnishing the requisite security deposit as stipulated in ITT Clause 24.1 and signing of the contract agreement for the "Resurfacing of roads at Maruthinagara 3rd main 6th, 7th and 8th cross roads in Kempegowda ward no -01" Tender Price of Rs.43,62,324/- (Rupees Forty Three lakhs Sixty Two Thousand Three Hundred Twenty Four Only) and 18% GST Rs.7,85,218/- (Rupees Seven Lakh Eighty Five Thousand Two Hundred Eighteen Only)Hence you are hereby instructed to proceed with the execution of the said works in accordance with the contract documents the stipulated time for the completion of the work is 90 days from the date of issuing work order.

26/05/2025

Executive Engineer
Yelahanka Division
Bruhat Bangalore Mahanagara Palike
Bangalore-64

514 10

ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

ಸಹಾಯಕ ಕಂದಾಯ ಅಧಿಕಾರಿಗಳ ಕಛೇರಿ, ಯಲಹಂಕ ಉಪ ವಿಭಾಗ, ಹಳೆ ಸಿ.ಎಂ.ಸಿ. ರಸ್ತೆ, ಬೆಂಗಳೂರು – 64.

ಸಂಖ್ಯೆ: ಬಿ.ಬಿ.ಎಂ.ಪಿ/ಸ.ಕಂ.ಅ/ಯ.ಉ.ವಿ/ಪಿ.ಆರ್/ /2024–25

ದಿನಾಂಕ: 14-02-25

ದೃಡೀಕರಣ ಪತ್ರ

2024–25ನೇ ಸಾಲಿನ ಬಿ.ಬಿ.ಎಂ.ಪಿ ಆಯವ್ಯಯದಲ್ಲಿ ಹಿಂದುಳಿದ ವರ್ಗದ ಜನರು ವಾಸಿಸುವ ಪ್ರದೇಶಗಳಲ್ಲಿ ಮೂಲಭೂತ ಸೌಕಾರ್ಯಗಳಾದ ರಸ್ತೆ ಮತ್ತು ಚರಂಡಿ ಹಾಗೂ ಪಾದಚಾರಿ ಅಭಿವೃದ್ಧಿ ಕಾಮಗಾರಿಗಳನ್ನು ಕೈಗೊಂಡುವ ನಿರ್ವಹಿಸುವ ಸಂಬಂಧ ಕ್ರೀಯಾ ಯೋಜನೆಯ ಅನುಮೋದನೆಗೆ ಪ್ರಸ್ತಾವನೆ ಸಲ್ಲಿಸಲಾಗಿರುತ್ತದೆ. ಸದರಿ ಕ್ರೀಯಾ ಯೋಜನೆಯಲ್ಲಿನ ಕಾಮಗಾರಿಗಳನ್ನು ನಿರ್ವಹಿಸುವ ಸ್ಥಳದಲ್ಲಿ ಶೇಕಡ 50%ಕ್ಕಿಂತ ಹೆಚ್ಚಾಗಿ ಹಿಂದುಳಿದ ವರ್ಗದ ಜನಾಂಗದವರು ವಾಸಿಸುತ್ತಿರುವ ಬಗ್ಗೆ ಸಂಬಂಧಪಟ್ಟ ಸಹಾಯಕ ಕಂದಾಯ ಅಧಿಕಾರಿಗಳು ರವರ ದೃಡೀಕರಣ ಅವಶ್ಯಕತೆ ಇದ್ದು, ಇದರ ಸಲುವಾಗಿ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು ಯಲಹಂಕ ವಿಭಾಗರವರು ಸದರಿ ಕ್ರೀಯಾ ಯೋಜನೆಯ ಪಟ್ಟಿಯನ್ನು ಕಡತದೊಂದಿಗೆ ಸಲ್ಲಿಸಿರುತ್ತಾರೆ.

ವಿವರ ಈ ಕೆಳಕಂಡಂತಿದೆ.

Sl No	Ward No	Name of work	Estimate Cost Rs in Lakhs
1	1	Resurfacing of roads at Maruthinagara 3rd main 6th, 7th and 8th cross roads in Kempegowda ward no -01	50.00

ಮೇಲ್ಕಂಡ ಕಾಮಗಾರಿಗೆ ಸಂಬಂದಿಸಿದಂತೆ ಸಂಬಂಧಪಟ್ಟ ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು ಯಲಹಂಕ ಉಪ ವಿಬಾಗ ಹಾಗೂ ಸಹಾಯಕ ಅಭಿಯಂತರರು ವಾರ್ಡ್ ನಂ–01 ರವರೊಂದಿಗೆ ಸ್ಥಳ ಪರಿಶೀಲನೆ ಮಾಡಿ ಯಲಹಂಕ ಮಾರುತಿನಗರ 3ನೇ ಮುಖ್ಯರಸ್ತೆ, 6ನೇ, 7ನೇ ಮತ್ತು 8ನೇ ಅಡ್ಡರಸ್ತೆಗಳಲ್ಲಿನ ರಸ್ತೆ ಮತ್ತು ಚರಂಡಿ ಅಭಿವೃದ್ಧಿ ಮಾಡಲು ಅಂದಾಜು ಪಟ್ಟಿಯಲ್ಲಿ ಅವಕಾಶ ಕಲ್ಪಿಸಲಾಗಿದ್ದು, ಈ ಪ್ರದೇಶದಲ್ಲಿ ಶೇಕಡ 50% ಕ್ಕಿಂತ ಹೆಚ್ಚು ಹಿಂದುಳಿದ ವರ್ಗದ ಜನಾಂಗದವರು ವಾಸಿಸುತ್ತಿರುತ್ತಾರೆಂದು ಈ ಮೂಲಕ ದೃಡೀಕರಿಸಿದೆ.

ಸಹಾಯಕ ಕಂದಾಯ ಅಧಿಕಾರಿಗಳು
ಯಲಹಂಕ ಉಪ ವಿಭಾಗ

ವಾರ್ಡ್ ಮಟ್ಟದ ಲೋಕೋಪಯೋಗಿ ಕಾಮಗಾರಿ, ನಗರ ಯೋಜನೆ ಹಾಗೂ ಮೂಲ ಸೌಕರ್ಯ ಸ್ಥಾಯಿ ಸಮಿತಿ ಹಾಗೂ ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ಸಭೆಯ ಅಧಿಕಾರಗಳನ್ನು ಚಲಾಯಿಸಿ ಆಡಳಿತಗಾರರ ದಿನಾಂಕ: 25 - [illegible] -2025ರ ನಡವಳಿಗಳು

ವಿಷಯದ ಸಂಖ್ಯೆ: 531/2024-25

ಪ್ರಸ್ತಾವನೆ:

ಟಿಪ್ಪಣಿಯಲ್ಲಿ ವಿವರಿಸಿರುವಂತೆ, ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆಯ 2024-25ನೇ ಸಾಲಿನ ಆಯವ್ಯಯದ ಲೆಕ್ಕ ಶೀರ್ಷಿಕೆ 05-330502 ಅಡಿಯಲ್ಲಿ ಹಿಂದುಳಿದ ವರ್ಗದವರ ಕಲ್ಯಾಣ ನಿಧಿ ಕಾಮಗಾರಿಗಳು/ಮೂಲಭೂತ ಸೌಕರ್ಯ ಅಭಿವೃದ್ಧಿ ಕಾಮಗಾರಿಗಳಿಗೆ ಒಟ್ಟು ರೂ.99.00 ಕೋಟಿಗಳ ಅನುದಾನವನ್ನು ಮೀಸಲಿರಿಸಿದ್ದು, ಸದರಿ ಅನುದಾನದಡಿಯಲ್ಲಿ ಯಲಹಂಕ ವಿಧಾನಸಭಾ ಕ್ಷೇತ್ರಕ್ಕೆ ಒಳಪಡುವ ವಾರ್ಡ ನಂ.01, 02, 03 ಮತ್ತು 04ರ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ಶೇಕಡ 50ಕ್ಕಿಂತ ಹೆಚ್ಚಿನ ಹಿಂದುಳಿದ ವರ್ಗದವರು ವಾಸಿಸುವ ಪ್ರದೇಶಗಳಲ್ಲಿ ಮೂಲಭೂತ ಸೌಕರ್ಯಗಳಾದ ರಸ್ತೆ, ಚರಂಡಿ ಇತ್ಯಾದಿ ಅಭಿವೃದ್ಧಿ ಕಾಮಗಾರಿಗಳನ್ನು ಕೈಗೊಳ್ಳಲು ರೂ.500.00 ಲಕ್ಷಗಳ ಅನುದಾನಕ್ಕೆ ಮಾನ್ಯ ಮುಖ್ಯ ಆಯುಕ್ತರು ಬಿ.ಬಿ.ಎಂ.ಪಿ ರವರ ಕಛೇರಿ ಆದೇಶ ಸಂಖ್ಯೆ: ಮು.ಆ/ಪಿ.ಆರ್/ಜೆ3429/2024-25 ದಿನಾಂಕ: 20-02-2025ರಂದು ಮಾನ್ಯ ಮುಖ್ಯ ಆಯುಕ್ತರು ಅನುಮೋದನೆ ನೀಡಿರುತ್ತಾರೆ.

ಮುಂದುವರೆದು ಯಲಹಂಕ ವಿಭಾಗದ ವಾರ್ಡ್ ನಂ.01, 02, 03 ಮತ್ತು 04ರ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ಶೇಕಡ 50ಕ್ಕಿಂತ ಹೆಚ್ಚಿನ ಹಿಂದುಳಿದ ವರ್ಗದವರು ವಾಸಿಸುವ ಪ್ರದೇಶಗಳಲ್ಲಿ ಮೂಲಭೂತ ಸೌಕರ್ಯಗಳಾದ ರಸ್ತೆ, ಚರಂಡಿ ಇತ್ಯಾದಿ ಅಭಿವೃದ್ಧಿ ಕಾಮಗಾರಿಗಳನ್ನು ಕೈಗೊಳ್ಳಲು ಈ ಕೆಳಕಂಡಂತೆ ಕಾಮಗಾರಿಗಳ ಕ್ರಿಯಾ ಯೋಜನೆ ತಯಾರಿಸಲಾಗಿರುತ್ತದೆ.

ಕಾಮಗಾರಿಗಳ ವಿವರ ಈ ಕೆಳಕಂಡಂತಿದೆ.

ಕ್ರ. ಸಂ	ವಾರ್ಡ್ ಸಂಖ್ಯೆ	ಕಾಮಗಾರಿಯ ಹೆಸರು	ಅಂದಾಜು ಮೊತ್ತ (ರೂ.ಲಕ್ಷಗಳಲ್ಲಿ)
1	1	Resurfacing of roads at Maruthinagara 3rd main 6th, 7th and 8th cross roads in Kempegowda ward no -01.	50.00
2	1	Resurfacing of roads at Dharmaraya temple road and Nagareshwara temple road in Kempegowda ward no -01.	50.00
3	1	Resurfacing of roads at Munithimmaiah layout, Kondappa gardens main and cross roads in Kempegowda ward no -01.	50.00
4	1	Resurfacing of roads at Maruthingara 2nd main, 10th, 11th and 12th cross roads and Alpha school road in Kempegowda ward no -01.	50.00
5	1	Resurfacing of roads at Surabhi layout 2nd cross roads in Kempegowda ward no -01.	40.00
6	2	Resurfacing of roads at Manavarthi thota main and cross roads in chowdeshwari ward no -02.	60.00
7	3	Constructions to drains at Hariraja layout and Kaveri layout in Attur ward no -03.	80.00
8	3	Resurfacing of roads at Lakshman reddy layout in Attur ward no -03.	60.00

9	4	Improvement to roads and drains at Nanjundappa badavane in Yelahanka upanagara ward no -04.	60.00
		TOTAL	500.00

1. ಪ್ರಸ್ತಾಪಿತ ಕಾಮಗಾರಿಗಳ ಸ್ಥಳ ಪರಿವೀಕ್ಷಣೆ ಮಾಡಿ ಕಾಮಗಾರಿ ಅವಶ್ಯಕತೆ ಬಗ್ಗೆ ಹಾಗೂ ಸದರಿ ಕಾಮಗಾರಿಯನ್ನು ಪಾಲಿಕೆಯ ಹಿಂದಿನ ಆಯವ್ಯಯಗಳಲ್ಲಿ / ಅನುದಾನಗಳಲ್ಲಿ ಕೈಗೊಂಡಿಲ್ಲದೇ ಇರುವ ಮತ್ತು ಪುನರವರ್ತನೆಯಾಗದೇ ಇರುವುದನ್ನು ಖಚಿತಪಡಿಸಿಕೊಳ್ಳುವುದು.
2. ಕಾಮಗಾರಿಯನ್ನು ಅನುಷ್ಠಾನಗೊಳಿಸುವ ಪೂರ್ವದಲ್ಲಿ ಆಯುಕ್ತರವರ ಕಛೇರಿ ಆದೇಶ ಸಂಖ್ಯೆ ಮುಲೆಅ/ ಆಯವ್ಯ/2019-20/ಪಿ.ಆರ್/11/2018-19 ದಿನಾಂಕ: 12-6-2019 ಮತ್ತು ಆಯುಕ್ತರವರ ಅಂತರಿಕ ಕಛೇರಿ ಟಿಪ್ಪಣಿ ಸಂಖ್ಯೆ ಬಿ.ಬಿ.ಎಂ.ಪಿ/ ಆ/ ಪಿ.ಆರ್/ 5287/ 2019-20 ದಿನಾಂಕ:5-11-2019 ಮತ್ತು ಬಿ.ಬಿ.ಎಂ.ಪಿ/ಪಿ /ಪಿ.ಆರ್/6166/2019-20 ದಿನಾಂಕ:13-12-2019ರಲ್ಲಿನ ನಿರ್ದೇಶನಗಳನ್ನು / ಪ್ರಕ್ರಿಯೆಗಳನ್ನು ಅನುಸರಿಸತಕ್ಕದ್ದು.
3. ಕಾಮಗಾರಿಗೂ ಮುನ್ನ ಹಾಗೂ ನಂತರದ ಜಿ.ಪಿ.ಎಸ್ ಯುಳ್ಳ ಛಾಯಾ ಚಿತ್ರಗಳನ್ನು ಸಲ್ಲಿಸತಕ್ಕದ್ದು.

ಈ ಮೇಲ್ಕಂಡ ಅಂಶಗಳ ಹಿನ್ನಲೆಯಲ್ಲಿ 2024-25ನೇ ಸಾಲಿನ ಆಯವ್ಯಯದಲ್ಲಿ ಲೆಕ್ಕ ಶೀರ್ಷಿಕೆ 05-330502 ಅಡಿಯಲ್ಲಿ ಹಿಂದುಳಿದ ವರ್ಗದವರ ಕಲ್ಯಾಣ ನಿಧಿ ಕಾಮಗಾರಿಗಳು / ಮೂಲಭೂತ ಸೌಕಾರ್ಯ ಅಭಿವೃದ್ಧಿಗೆ ಮೀಸಲಿಟ್ಟಿರುವ ಅನುದಾನದಲ್ಲಿ ಯಲಹಂಕ ವಿಧಾನಸಭಾ ಕ್ಷೇತ್ರಕ್ಕೆ ಒಟ್ಟು ಮೊತ್ತ ರೂ.5.00 ಕೋಟಿಗಳು ಮಂಜೂರಾಗಿದ್ದು, ಸದರಿ ಅನುದಾನದಡಿ ಕೈಗೊಳ್ಳುವ ಕಾಮಗಾರಿಗಳ ಕ್ರಿಯಾ ಯೋಜನೆಗೆ ಅನುಮೋದನೆ ಕೋರಿ ವಾರ್ಡ್ ಮಟ್ಟದ ಲೋಕೋಪಯೋಗಿ ಕಾಮಗಾರಿ, ನಗರ ಯೋಜನೆ ಹಾಗೂ ಮೂಲ ಸೌಕರ್ಯ ಸ್ಥಾಯಿ ಸಮಿತಿ ಹಾಗೂ ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ಸಭೆಯ ಅಧಿಕಾರಗಳನ್ನು ಚಲಾಯಿಸಿ ತೀರ್ಮಾನಕ್ಕಾಗಿ ಆಡಳಿತಗಾರರ ಮುಂದೆ ಮಂಡಿಸಿರುವ ವಲಯ ಆಯುಕ್ತರು (ಯಲಯಂಕ) ರವರ ಕಛೇರಿ ಸಂಖ್ಯೆ:ವಆ(ಯ)/ಪಿಆರ್/845/2024-25 ದಿನಾಂಕ:24-02-2025ರ ಟಿಪ್ಪಣಿ.

ವಿಷಯ ಸಂಖ್ಯೆ:531/2024-25

ತೀರ್ಮಾನ: ವಲಯ ಆಯುಕ್ತರು (ಯಲಹಂಕ) ರವರು ಮಂಡಿಸಿರುವ ಸಂಖ್ಯೆ:ವಆ(ಯ)/ಪಿಆರ್/845/2024-25 ದಿನಾಂಕ:24-02-2025ರ ಟಿಪ್ಪಣಿಯನ್ನು ಒಪ್ಪಿದೆ.

(ಉಮಾಶಂಕರ್.ಎಸ್.ಆರ್)
ಆಡಳಿತಗಾರರು

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M. A. R. 57 (Rule 116)
Measurement Book

No. E 130361

Serial No. 1st & final Bill
Name of work ....
Name of Contractor of nature of Agency VINAYAKA ENTERPRISES, (Prop B.R mohan) From .... To ....
Date of commencement of work 26-05-2025

Date 1	Full description, etc, of work 2	Number 3	Dimensions Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	name of work :- Resurfacing of Roads At maruthi nagara 3rd MAIN 6th, 7th and 8th cross Roads in kempegowda ward no-01						
	Job code no :- 001-25-000019						
	Est cost :- 50.00 lakhs						
	Work order no :- BBMP/EE/YNK.D/KPPP-16/W.O/14/2025-26 @ dated 26-05-2025						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	1> Removing and Resetting of Foot Path slab (Approved Rate). qty vide E-Bill 434.52 sqm @ Rs 242.03 = 105166.88						
	2> Earth work Excavation Manual means for drains, canals, waste weir, draft & approach channels. qty vide E-Bill 449.49 cum @ Rs 371.59 = 167025.99						
	3> Providing and laying in Position plain cement concrete for levelling course for all works in foundation. mix (1:3:6) (M10) qty 31.77 cum @ Rs 6784.88 = 215555.64						

Serial No. ....
Name of work ..
Name of Contra
Date of comme

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	5> Pro sub bri qty

M. A. R. 57 (Rule 116) **No. E**

Measurement Book

Serial No. ....

Name of work .... From .... To ....

Name of Contractor of nature of Agency.. 130362

Date of commencement of work..

Date	Full description, etc, of work	Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
4>	Supplying, fitting and placing un-coated TMT bar Reinforcement in sub structure. qty vide E-Bill 3.72 Tn @ Rs 89510.77 = 332980.06						
5>	Providing and laying in position Reinforced cement concrete for all sub structure of building, Irrigation works, Sub structure works of bridges, M20 design mix using 20 MM nominal size graded. qty vide E-Bill 90.82 Cum @ Rs 9670.41 = 878266.64						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
6)	Providing and fixing precast reinforced cement concrete covering slabs of 10cm thick made of M20. qty 267.57 sqm @Rs 2133.95 = 570981.00						
7)	Earthwork in surface Excavation by mechanical means for lowering & levelling the ground for all works. qty vide E-Bill 92.52 Cum @ Rs 107.62 = 9957.00						
8)	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification qty vide E-Bill 104.09 Cum @Rs 2899.07 = 301764.20						

Serial No. ....
Name of work ....
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9)	Provi Emul qty
10)	provi pressu qty

M. A. R. 57 (Rule 116)
Measurement Book

No. E

Serial No. ....

Name of work .... From .... To 130363

Name of Contractor of nature of Agency..

Date of commencement of work..

Date	Full description, etc, of work	Dimensions: Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
9)	Providing and applying Primer Coat with SS1 grade Bitumen Emulsion on prepared surface of granular base. qty vide E-Bill 462.62 sqm @ Rs 46.45 = 21488.70						
10)	providing and applying tack coat with VG-10 Bitumen using pressure distributor at the rate of 0.20 kg/m2. qty vide E-Bill 2532.33 sqm @ Rs 13.59 = 34414.36.						

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	11> Providing and laying dense graded Bituminous macadam with 40/60 TPh capacity HMP using crushed aggregates qty 30.96 cum @ Rs 10704.68 = 331416.89.						
	12> Providing and laying Bituminous concrete with 40/60 TPH capacity hot mix Plant using crushed aggregates. qty 101.29 cum @ Rs 12409.68 = 1256976.49						
	13> Providing and laying of hot applied thermoplastic compound 2.5mm thick including reflector. qty 117.86 sqm @ Rs 600.43 = 70730.65						

M. A. R. 57 (Rule 116)
Measurement Book

No. E

Serial No. ....

Name of work ....

Name of Contractor of nature of Agency.............................. From .... To ....

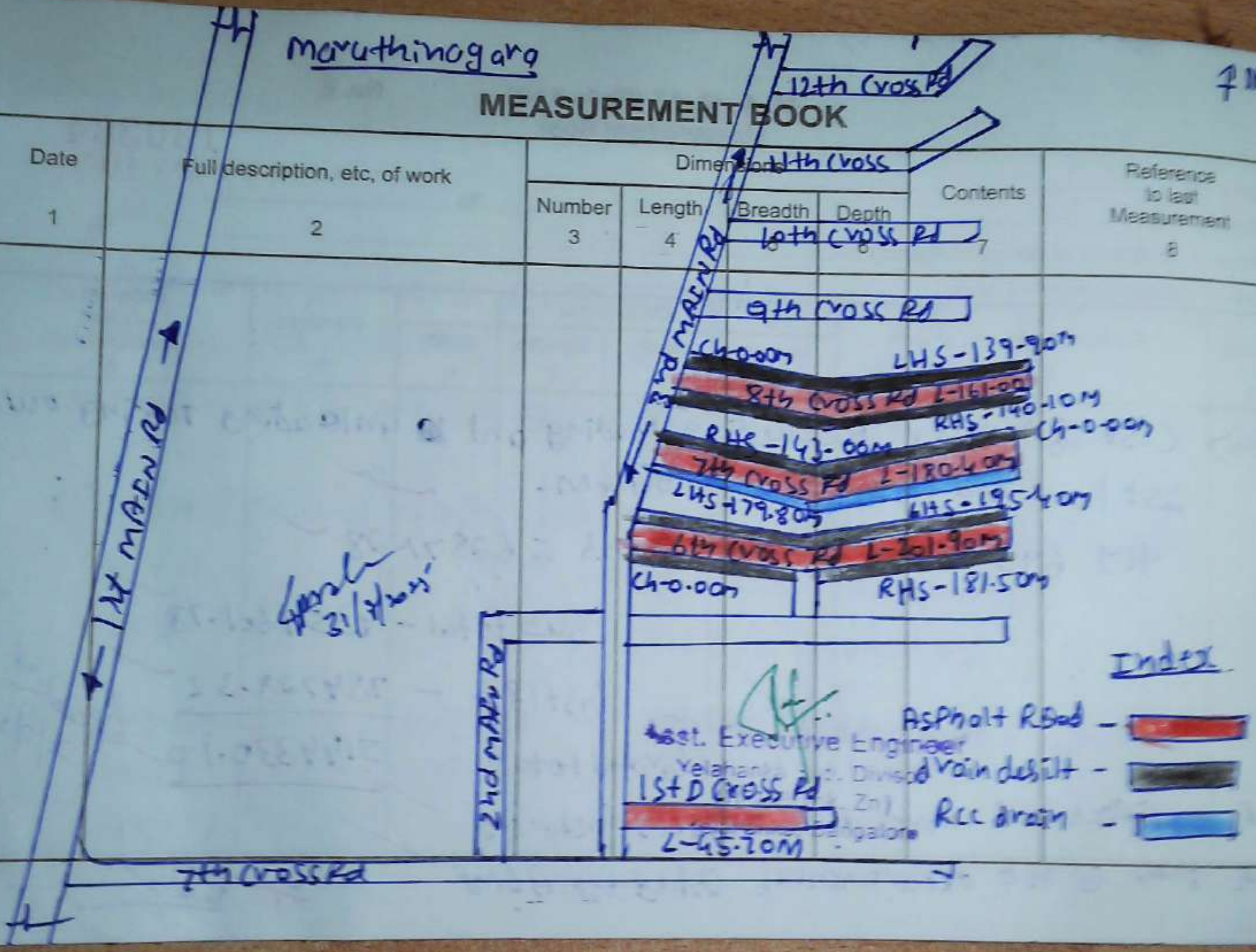
Date of commencement of work..............................

Date	Full description, etc, of work	Number	Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
14)	Cost of haulage Excluding loading and unloading Taking outlet 25t load and lead 10km = 100 t-km.						
	qty 693.78 t-km @ Rs 90.63 = 62877.28						
					Sub total -	4359601.78	
					Gst18% -	784728.32	
	Asst. Executive Engineer Yelahanka Sub Division (BBMP Ynk. Zn) Yelahanka, Bangalore				Grand total	5144330.10	31/7/2023
	Certified that work done is satisfactorily						

& there is no departmental issue by BBMP.

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8



M. A. R. 57 (Rule 116)
Measurement Book

No. E 130365

Serial No. ....
Name of work ....
Name of Contractor of nature of Agency.............................. From .... To ....
Date of commencement of work..............................

Date 1	Full description, etc, of work 2	Number 3	Dimensions Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	GT 514433:00						
	FSD - 217980						
	IT - 43596						
	LC - 43596						
	CGST 43596						
	SGST - 43596						
	CBF - 4360						
	LR - 47560						
	444284						
	4700046						

Audited & Admitted for Rs. 5144330:00
47000 46:00 by Cheque
and Rs. 444284:00 by adjusement
Accts. Supdt. Yelahanka Division BBMP 3/7
Exe. Engineer Yelahanka Division BBMP